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STATE OF OHIO
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DEPARTMENT OF NATURAL RESOURCES
Donald C. Anderson, Director
DIVISION OF GEOLOGICAL SURVEY
Thomas M. Berg, Chief

1995 REPORT ON OHIO MINERAL INDUSTRIES

WITH
DIRECTORIES OF REPORTING
COAL AND INDUSTRIAL MINERAL OPERATORS





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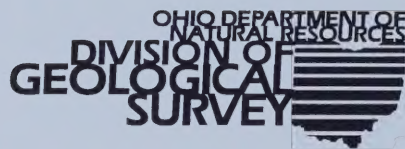
DIRECTORIES OF REPORTING
COAL AND INDUSTRIAL MINERAL OPERATORS

compiled by

Sherry L. Weisgarber

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Typesetting and layout: Lisa Van Doren

Cover illustration: View of the sandstone fabrication plant of Briar Hill Stone Company in Holmes County. Manager Jerry Parsons (left) and machine operator Denny Bevington (right) inspect a profile piece of sandstone cut by the contour-generating machine. In the background behind them, Kenneth ("Bud") Purdy prepares to cut a larger piece of sandstone into smaller pieces. The contour saw operates under the direction of a computer program and is shaping cornice pieces for an addition to match the original stone used in the construction of the Dayton Art Institute, which was built in 1928 using sandstone from Briar Hill Stone Company. For over 80 years Briar Hill has mined sandstone from numerous quarries throughout north-central Ohio. Briar Hill stone has been used from coast to coast for a variety of building projects. Blocks as large as 16 tons are quarried from the Pennsylvanian-age Massillon sandstone, which provides an abundant supply of unique colors. Gang sawing of the huge blocks brought from the quarries produces slabs of various sizes for further processing by diamond sawing, splitting or breaking by machine, and custom hand finishing to provide a variety of finished products to meet today's many design applications.

Photo by Michael D. Williams.

PREFACE

We frequently hear slogans like "Buy American" or "Buy Ohio" encouraging people to use domestic resources rather than relying on imports. I support that concept and would like to offer another slogan: **"Use Ohio Rock!"** Our state is richly endowed with a wide variety of building stones that can be used in all kinds of construction. Much of Ohio's natural stone—such as the Massillon sandstone shown being worked at Briar Hill Stone Company on the front cover of this report—has an intrinsic beauty that cannot be duplicated synthetically. Even though artificial stone is becoming fairly common, and its fabrication more sophisticated, I think there is nothing like the "real thing." Many of the abundant limestones and dolomites in western Ohio are extremely durable and aesthetically pleasing and will last for centuries. The numerous sandstones in eastern Ohio can be used for basic construction, decorative trim, and flagging. Even the shales and clays which are so common in our state can be fabricated into brick and tile.

The Division of Geological Survey will soon be completing a totally new bedrock geologic map of Ohio. Our geologists can use their mapping to identify all kinds of rock types that may suit the special needs of architects, engineers, and builders. The maps and related databases also can be used to develop quarry and reclamation plans and predict the amount of overburden that may need to be moved. Ohioans should give thoughtful consideration to using indigenous rock in future construction or reconstruction. Contact the Geological Survey, and we will help you find the stone resources and producers that fit your needs. If you require a particular rock type that does not occur at the surface in Ohio, we can put you in touch with other geological surveys whose states have the kind of rock you want. Let's support our stone producers. **Use Ohio Rock!**

Thomas M. Berg
State Geologist & Chief

FOREWORD

Having a color photo on the cover of the report is becoming a regular feature. We thank Briar Hill Stone Company, especially Jerry Parsons, Denny Bevington, and Kenneth "Bud" Purdy, for their cooperation in making this cover of their sandstone operation possible. A description of the cover photo is on the reverse of the title page of the report.

The article in this year's report, "From pulpstones to bats," was researched and written by Douglas L. Crowell, Survey Geologist and Head of the Coal Geology Group. This article is a historical account of a portion of the former sandstone industry in Ohio. In keeping with this year's sandstone theme, historical photos of the sandstone industry can be found throughout the report.

Sometimes mineral-industry operators discover significant fossil and geologic specimens while mining. The Spring issue of *Ohio Geology* featured two articles on significant fossil finds in mining operations in Ohio—a fossil forest in an underground coal mine and elk skeletons in peat and sand and gravel pits. Bones of Ice Age animals commonly turn up in sand and gravel and peat deposits. Plant and animal fossils are found in limestones and shales; plant and vertebrate (fishes, amphibians, reptiles) fossils are found especially in rocks associated with coal beds. Recently, it has become evident that meteorites that fell into seas or swamps hundreds of millions of years ago may be found in limestone and coal beds. The Division of Geological Survey encourages operators to report these discoveries so that they can be preserved for scientific study. Please call the Survey at 614-265-6576 so we may refer these discoveries to the proper expert. Please note that there are no Ohio laws governing the collection or ownership of fossil specimens found on private property. Contrary to a common misconception, no State agency has the authority to stop or delay construction or mining operations if fossils are found. Scientists called in to recover fossil specimens make every effort to avoid delaying an operation.

This is the first year that annual coal and industrial-mineral reporting forms were used to compile the information published in this report. I have found the use of annual reporting forms, instead of quarterly reporting forms, to be quite a time saver. I hope the operators have too!

All changes and/or additions proposed for this report are made to increase the clarity and usefulness of the report to the public. Any comments on proposed changes or additions are welcome.

Sherry L. Weisgarber
Geologist and Mineral Statistician

Errata for
1994 report
now available
upon request

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FROM PULPSTONES TO BATS

by
Douglas L. Crowell,
Geologist Supervisor, Coal Geology Group,
Ohio Department of Natural Resources, Division of Geological Survey

On a hill west of Empire, Ohio, overlooking the Ohio River stand many stacks of pulpstones. Some of these stones are rough cut, and some are finished and look no different than they did nearly 65 years ago, as if they are still waiting to be shipped. These silent sentinels are remnants of an unusual mining operation at the Smallwood sandstone mine in sec. 34, Knox Township, Jefferson County. The Smallwood mine was operated by the Smallwood Pulp Stone Company and now is a potential habitat for a community of bats. The Smallwood Pulp Stone Company had plants at Empire, Ohio, and Opekiska (Monongalia County), West Virginia, and was the largest producer of pulpstones in the United States in 1932 (Burton, 1932, p. 63).

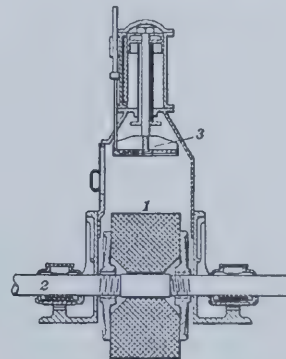
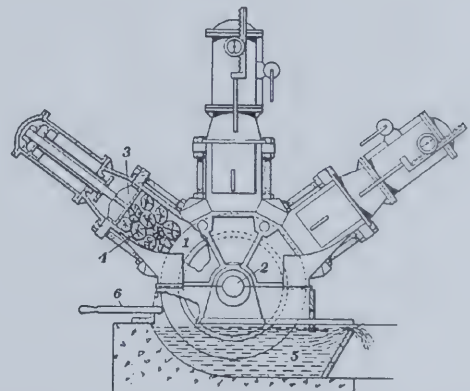
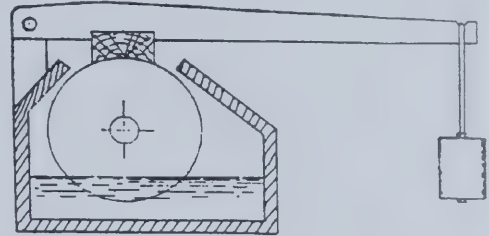


Wendell A. Reese of Empire, Ohio, on top of finished pulpstones produced at the Smallwood mine at Empire. Photo by Doug Crowell, 1996.

Pulpstones were cut from sandstone strata and manually shaped into cylinders 4 to 5 feet in diameter and 2 to 4 feet wide (thick). They are much larger (thicker) versions of grindstones and were used for grinding wood into fine fiber for making pulp and paper. When paper began to be manufactured from wood pulp in the mid-1800's, there was a demand for stone suited to grinding wood to a pulp. The discovery of the method of mechanically grinding wood to produce pulp is credited to Charles Fennerity of Halifax, Nova Scotia, in 1844. The first pulp mill using a grinding wheel was built in 1846 by a German, H. Voelter: *The early Voelter grinders consisted of a wooden vat in which the stone revolved. The wood was pressed against the stone by means of a lever and weight By 1872 there were about 150 grinders in operation in America Stone sharpening on the early grinders was carried out by bush-hammering the face of the stone* (Waterous, 1937, p. 70).

Most pulpstones were imported from Newcastle-upon-

Tyne, England (U.S. Geological Survey, 1900, p. 789), until Ohio began supplying these stones in the late 1800's. Grindstones can have diameters similar to pulpstones but were typically only 8 to 12 inches wide. Grindstones originally were used for sharpening tools. During the late 1800's, Ohio's grindstones were popular in finish grinding of metals prior to polishing or painting. Ohio has supplied about 90 percent of the 4.5 million tons of grindstones consumed in the United States (Bond, 1979, p. 1). Although pulpstones were produced in Ohio during the late 1800's,



Top, end view of Voelter's first pulpwood grinder, 1846. From Waterous, 1937, p. 70. Center and bottom, longitudinal and cross-sectional views of a three-pocket pulpwood grinder typically used during the early twentieth century. The pulpstone (1) is mounted and rotated on a steel shaft (2). Under pressure, the cylinder head (3) presses wood (4) in the pocket against the rotating pulpstone. Ground wood pulp collects in a water-filled pit (5) beneath the pulpstone. The surface of the pulpstone is cleaned and maintained by a grindstone-dressing tool (6). Modified from Buncke, 1927, p. 14.

production data were not reported until 1903. From 1903 to 1916, Ohio supplied between 82 and 90 percent, by value, of the grindstones and pulpstones produced in the United States (see value table).

The object in grinding pulp is to free the fiber in the wood from its cementing bond of lignin. In 1904, 913,000 tons of pulp were ground for use in the production of newsprint paper alone. By 1930, 4,750,000 tons were ground by pulpstone (Burton, 1932, p. 63). The standard size of pulpstones used in the early 1900's to grind 24-inch-wide wood was 54 inches in diameter and had a 24-inch-wide face. Such a stone would weigh about 2.5 tons and required a power supply of 350 to 450 horsepower per stone to drive. By the 1920's, the size of pulpstones had increased. To grind 48-inch-wide wood, these stones were 67 inches in diameter and had a 54-inch face. These stones weighed about 7.7 tons and required a power supply of 1400 horsepower per stone to operate (Dupuis, 1942, p. 558). (Note: pulpstone tonnage was calculated, using the formula for the volume of a cylinder, $\pi r^2 h$, on the basis of 140 pounds per cubic foot of sandstone.)

Grindstones were produced in Washington County, Ohio, as early as 1819 (Van Buskirk, 1982, p. 1). The first government report on pulpstone production in the United States was issued in 1898, the same year the Latto quarry at Tippecanoe, Harrison County, Ohio, was re-opened by the Halderman Stone Company of Cleveland, Ohio (U.S. Geological Survey, 1900, p. 789), to produce bridge stone, building stone, grindstones, and pulpstones (Bownocker, 1915, p. 146). The Latto quarry, developed in the Buffalo sandstone (Pennsylvanian) in sec. 21, Washington Township, Harrison County, was opened about 1889 by the Tippecanoe Stone Company. In the same year, ownership was transferred to T. A. Latto (The Cadiz Republican, August 8, 1889). This initial operation failed and was re-opened by the Halderman Stone Company in 1898. After a few years, ownership of the Latto quarry was transferred from the Halderman Stone Company to the Cleveland Stone Company, which operated the quarry until it was abandoned in 1907 (Condit, 1912, p. 246). In addition to

these quarries and the Smallwood mine at Empire, other quarries in Ohio that produced pulpstones include:

1. The Empire Pulp Stone Company of Steubenville, which mined the Lower Freeport sandstone (Pennsylvanian) (Lamborn, 1930, p. 52) in sec. 35, Saline Township, Jefferson County. The sandstone in this quarry is uniformly coarse grained, contains little mica, and is cemented in part by iron oxide. This quarry was abandoned about 1923.

2. The Smallwood-Low Stone Company of Lisbon, which mined the Lower Freeport sandstone (Stout and Lamborn, 1924, p. 190) in sec. 14, Center Township, Columbiana County. About 1,500 pulpstones were produced and shipped annually from this quarry, including exports to Canada and Japan.

3. The General Stone Company of Amherst (Lorain County), which mined the Buffalo sandstone (Lamborn, 1930, p. 125) near Steubenville in sec. 25, Island Creek Township, Jefferson County. This quarry produced two sizes of pulpstone: some were 62 inches in diameter and had a 54-inch-wide face, and some were 54 inches in diameter and had a 27-inch-wide face. Some of these pulpstones were shipped to Canada. This quarry employed 30 to 40 men.

4. The International Pulp Stone Company of Elyria (Lorain County), which mined the Lower Freeport sandstone (Stout and Lamborn, 1924, p. 187 and 190) at California Hollow near East Liverpool in sec. 24, Liverpool Township, Columbiana County. The California Hollow quarry opened in the early 1900's (East Liverpool Review, January 5, 1990, p. A8 and A9) and employed between 40 and 50 workers. It was abandoned in the 1930's. This company also operated a pulpstone quarry near Hammondsville, Jefferson County (Bownocker and Stout, 1928, p. 90).

Although Ohio was a national leader in the production of grindstones and pulpstones, it is the way the sandstone was mined at the Smallwood mine that is unusual.



Stacks of pulpstones and grindstones at the Latto quarry at Tippecanoe, Harrison County. Photo by Doug Crowell, 1996.



Pulpstone quarry at California Hollow, Columbiana County. Stacks of finished pulpstones at left edge of photo are ready for shipment. The men wearing suits in center are Bob and Frank Harvey, quarry superintendents. John Phillip Mattern, father of Robert Mattern (see text), stands in a wagon. As a lad of 14, Robert Mattern carried tools and water at this quarry in 1916. Photo courtesy of The Museum of Ceramics, from the Mattern family collection.

SANDSTONE MINING

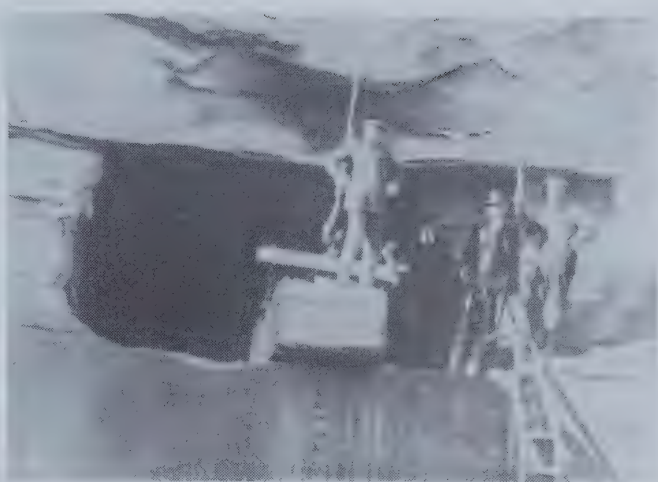
Pulpstones and grindstones in Ohio generally were produced at quarries by surface mining methods. However, the pulpstones of the Smallwood Pulp Stone Company at Empire were produced by both surface and underground mining methods. The Smallwood Pulp Stone Company began surface mining sandstone at Empire about 1914, possibly as early as 1906 (Mary Robinson via Shirley Bartles, personal commun., 1996). By 1917 the U.S. Geological Survey (1920, p. 218) reported that the Smallwood Pulp Stone Company had active quarries at both Empire, Ohio, and Opekiska, West Virginia. The sandstone produced at the Empire mine is the Upper Freeport sandstone (Lamborn, 1930, p. 80). This Pennsylvanian-age sandstone is about 70 feet thick and was deposited by rivers that meandered back and forth across the area. The sandstone lies about midway in the steep-sided hills west of Empire.

Once the overburden at the Smallwood mine was removed, a coal-fired, compressed-air channeling machine cut the sandstone into blocks 20 feet square and 10 to 12 feet thick. The channeling machine could cut a groove about 3 inches wide and 10 to 12 feet deep into the sandstone, using chisel-like teeth. Channeling machines were developed in the 1880's (Bownocker, 1915, p. 110) and replaced hand cutting of the grooves. The use of a channeling machine was common among northern Ohio sandstone quarry operators. Sandstone quarry operators in southern Ohio used machines called ditchers to cut circle-shaped grooves in sandstone. This machine, also developed in the 1880's, used a channeller or drill that revolved around a fixed, vertical post (Simmons, 1991, p. 44 and 45).

After the outline of the sandstone block was cut, holes were drilled at the base of the block. Explosive charges sufficient to crack the sandstone were placed in the holes and detonated. The sandstone blocks were split to desired sizes by additional drilling and blasting. The removal of sandstone created a highwall. As mining continued the highwall advanced farther into the hillside until an overburden thickness of about 60 feet was reached. At this point, the removal of overburden material was too costly and difficult, and normally the mining operation would be abandoned. However, the Smallwood Pulp Stone Company continued their operation at Empire by tunneling into the Upper Freeport sandstone and mining it underground.

Around 1920, three drift openings were made into the sandstone by Smallwood employees Charles and James Vance (Shirley Bartles, personal commun., 1996). These drift openings measure about 30 feet wide and 25 feet tall and extend into the hill approximately 150 feet before joining an entryway that runs parallel to the crop of the sandstone. The sandstone apparently was mined by room-and-pillar style of mining; room height was nearly equal to the full thickness of the sandstone. Steel I-beams were used to span the entryways to provide roof support in addition to the sandstone pillars. According to an inventory form on file at the Ohio Historic Preservation Office of the Ohio Historical Society, some of the I-beams were removed from the mine during World War II and sold as scrap iron.

The Upper Freeport sandstone at the Smallwood mine was mined underground by the same channeling machines that were used to mine the sandstone at the surface. Sandstone blocks produced underground were split to size and then brought to the surface by mine car for finish work.

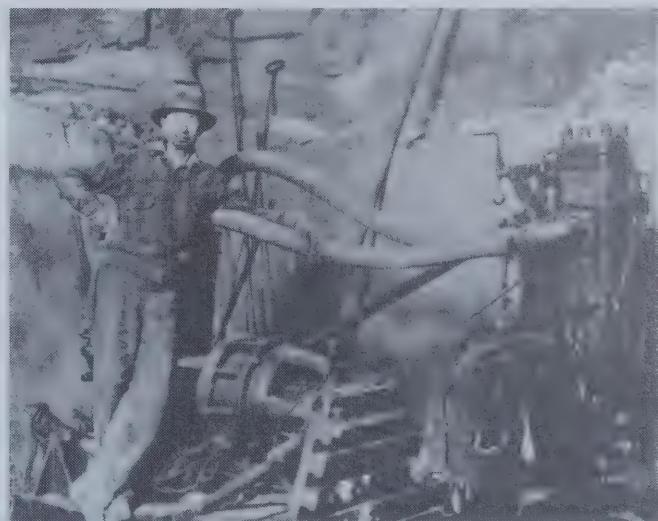


Mine superintendents Charlie Vance (far left) and James Vance (far right) and mine owners overseeing construction of one of the drift openings at the Smallwood mine. *Circa 1920.* Photo courtesy of Wendell B. Reese.

PULPSTONE PREPARATION

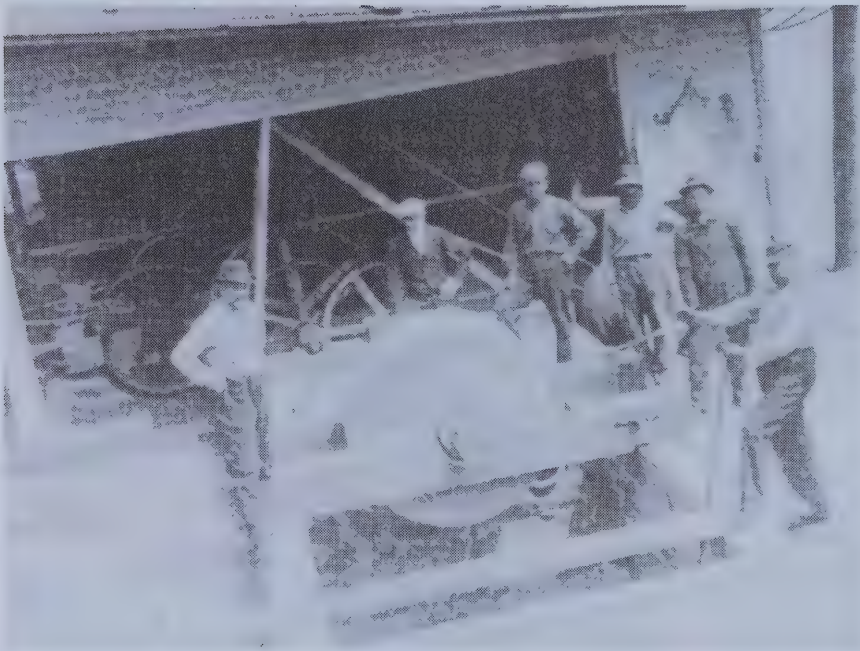
The first stage in finishing a pulpstone was to cut off the corners of the sandstone blocks, a process called "scabbling," using compressed-air tools to produce a stone with a cylindrical shape. Next, a square or round eyehole 4 to 5 inches in diameter was cut through the center of the stone. The eyehole allowed the stone to be placed on a shaft of a lathe. As the stone was turned on the lathe, iron rods resembling crowbars were held against the stone and used to machine a smooth, rounded edge (Cushing, 1931, p. 111). Use of a lathe to fashion a grindstone was developed by John Baldwin in 1833 (Bownocker, 1915, p. 116).

The finished pulpstones at the Smallwood mine were taken down the steep hillside by an elaborate, gravity-type tramway. A steel cable passed around a drum at the top of the incline, a loaded car attached to one end and an empty car to the other. The empty car ascending the hill served as a counterbalance to the loaded car descending the hill (Bowles, 1917, p. 108). The finished pulpstones were hoisted



Quarryman next to a channeling machine used inside the Smallwood mine. *Circa 1920's.* Photo courtesy of Wendell B. Reese.

James Vance, superintendent at the Smallwood mine at Empire, next to a rough-cut pulpstone. Note the compressed-air drill, anchored in the stone, that was used to cut the stone eyehole. *Circa 1920's. Photo courtesy of Wendell B. Reese.*

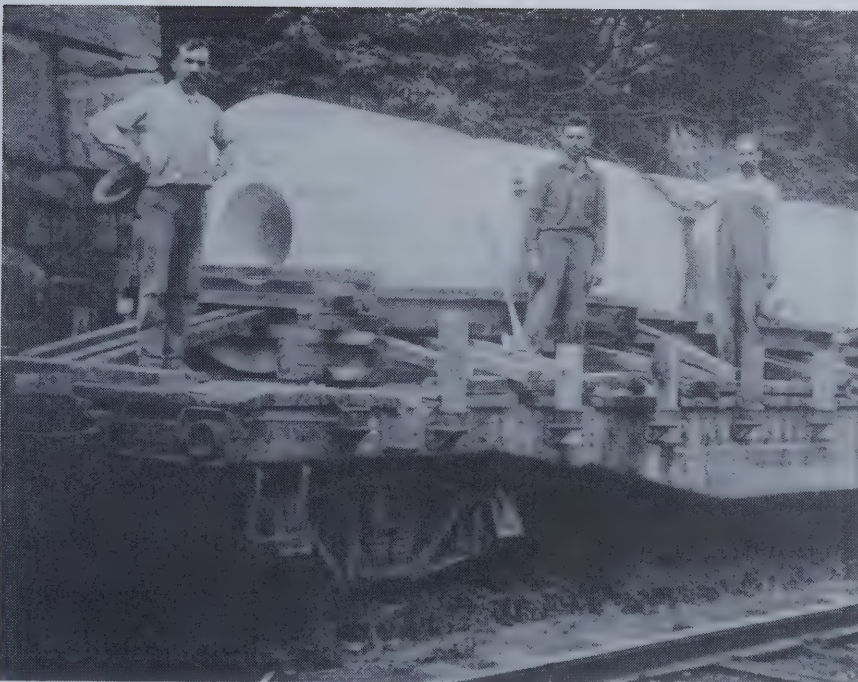


Part of the yard crew around a lathe at the Smallwood mine at Empire. As the stone revolved in the lathe, steel bars were held against the stone to give it a smooth, circular surface. *Circa 1920's. Photo courtesy of Wendell B. Reese.*

Stone yard at the Smallwood mine at Empire where finish work was completed and the stones were stacked until shipment. These stones measured 27 inches wide and 54 inches in diameter and weighed about 2.5 tons. *Circa 1921. Photo courtesy of Shirley Bartels.*



Tracks for tramway that brought pulpstones down the steep hillside from the Smallwood mine to the railroad. The derrick at the base of the hill was used to hoist pulpstones onto waiting rail cars. *Circa 1920's*. Photo courtesy of Wendell B. Reese.



Pulpstones from the Smallwood mine at Empire ready for shipment by rail car to pulp mills in the northern United States and Canada. Note the "Made in U.S.A." stamp on the end of the pulpstone. *Circa 1920's*. Photo courtesy of Shirley Bartels.

onto railroad cars and transported to pulp mills in Michigan, Wisconsin, and Canada.

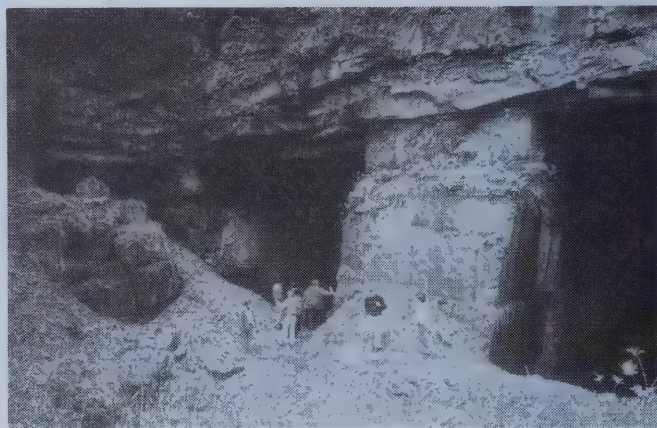
As the sandstone blocks were mined they were soft and contain small amounts of water, commonly called "quarry sap" (Dupuis, 1942, p. 539). The water generally drained out of the sandstone within a week or two after having been cut, but the stone remained somewhat soft. With continued exposure to air the stone hardened or seasoned, just as concrete hardens with time. This seasoning process took about a year before the stones were put into service. Freezing is harmful to fresh-cut pulpstones, therefore pulpstone operators generally worked from late spring until early fall. In describing winter shipment of pulpstones, a report by the Ohio Historical Society (1988) stated, "they [pulpstones] were packed in horse manure to keep [them] from freezing."

The Upper Freeport sandstone was mined underground at the Smallwood mine until 1932. No production was reported for this mine after 1931 and no pulpstones were produced in Ohio after 1931 (see production table). The Smallwood mine remained idle from 1932 until it was abandoned in 1937. During the 1930's the pulpstone industry in Ohio and nationally was replaced by the use of artificial abrasives. Artificial pulpstones could withstand the higher stresses created by modern pulp mills better than natural pulpstones.

The Smallwood mine provided employment to about 40 men, many of whom spoke little or no English (Helen Van Dyke via Shirley Bartles, personal commun., 1996). The average annual wages earned by Ohio's sandstone quarrymen during the period from 1914 to 1931 ranged from \$593.40 in 1914 to \$1,335.51 in 1927. The average annual wages of sandstone quarrymen compare well with wages paid to workers producing other mineral commodities. The average annual wages in 1930 were: \$973 to coal miners, \$1,090 to clay miners, \$1,182 to sandstone quarrymen, \$1,347 to gypsum miners, and \$1,400 to limestone quarrymen. Robert Mattern (personal commun., 1996) recalled that as a boy of 14 years old, during 1916, he worked as a general laborer in the quarry at California

Hollow and earned \$1.50 per day. Although mining sandstone provided a modest income, it allowed some to live in relative comfort. On his quarryman's salary Charlie Vance was able to purchase shoes and clothing for less fortunate children at Empire in addition to providing for his own four children (Shirley Bartles, personal commun., 1996).

The home office of the Smallwood Pulp Stone Company was at 503 National Exchange Bank Building (present-day Bank One Building), Steubenville, Ohio (Burch Directory Company, 1926, p. 454) through 1926. By 1928, Smallwood's home office was moved to 609-611 Sinclair Building, Steubenville, Ohio (Burch Directory Company, 1928, p. 474), and remained there until 1931. In 1931, the office was moved to the Union Trust Building, Cleveland, Ohio (U.S. Bureau of Mines, 1933, p. 659), where it remained until the company ceased making pulpstones at its Opekiska, West Virginia, plant about 1938.



Three drift openings of the Smallwood mine at Empire. The opening at right measures 25 feet tall and 30 feet wide. Circa 1988. Photo courtesy of the Ohio Division of Mines and Reclamation.



Employees of the Smallwood Pulp Stone Company at Empire. Left to right: first row—Charlie "Pappy" Vance (supervisor and Shirley Bartels' grandfather), unidentified, James Wagoner, James Ekey, Elmer Van Dyke (blacksmith and Shirley Bartels' grandfather), Harry Wright, unidentified, Scott Roe; second row—William Dunlap, Charlie Dunlap, Charles Vance, Jr., Frank Byers, unidentified, Frank Little, unidentified, James "Shoemaker" Vance (supervisor and Shirley Bartels' uncle); third row—unidentified, unidentified, unidentified, Earl "Rumpo" Adams, Floyd Van Dyke, unidentified; fourth row—unidentified, unidentified, Raymond "Bud" Hall, unidentified. Circa 1920. Photo courtesy of Wendell B. Reese.

BATS

When the Smallwood mine was abandoned the drift openings were not sealed. When any mine is abandoned the roof integrity of the openings and entryways is not maintained and these areas are not safe to enter. As a result, abandoned mine openings such as those at the Smallwood mine become attractive nuisances. Today, abandoned mines are closed for safety reasons by federal and state governments and mining companies. Permanent sealing, however, puts at risk bats that use or may use abandoned underground mines to hibernate, to raise their young, or as a migratory rest stop between summer and winter roosts. Because of the colonial nature of bats, roosting habitats need to be large and secure enough and have a proper environment to accommodate small groups of fewer than a hundred bats up to large colonies of several hundred thousand bats. Populations of over 100,000 bats are known to live in some mines of the northeastern United States and may be discovered wherever bats live near mines cool enough for hibernation (Tuttle and Taylor, 1994, p. 6).

Bats hibernate in caves or mines that have a winter temperature of 38° to 43°F, 65 to 95 percent humidity, and safety from human disturbance (The Columbus Dispatch, March 26, 1996). More than half of North America's bat species use abandoned mines as a refuge because their roosts in old-growth trees, old barns, and other outdoor



Bat gate covering a drift opening to the Smallwood mine. This gate allows bats to use the mine as a hibernation site and prohibits human entry to the mine. Photo by Doug Crowell, 1996.

buildings are being lost. *Some basic bat facts: bats are not blind. They won't get stuck in your hair. And, contrary to popular belief, they seldom transmit diseases such as rabies to humans and animals. Bats do, however, eat a lot of insects and help pollinate a variety of plants. Just one colony of 150 "big brown bats" can catch enough cucumber beetles each summer to protect local farmers from 18 million of the beetle's rootworm larva, which cost U.S. growers \$1 billion*

annually (Webster, 1995, p. 34).

When the Ohio Department of Natural Resources, Division of Mines and Reclamation considered sealing the Smallwood drift openings in 1988, an assessment was made of the site as a potential bat habitat. Although no bats were documented, the Smallwood mine site was determined to be an ideal habitat for the endangered Indiana brown bat as well as other native species. In 1991, a bat gate was erected over each drift opening to permit bat entry and prohibit human entry to the mine. Similar assessments have resulted in 20 bat gates having been erected between 1986 and 1994 at 12 different abandoned-underground-mine sites in Ohio, including the Smallwood mine (Max Luehrs, personal commun., 1996). Additional abandoned-underground-mine sites are being considered by the Ohio Division of Mines and Reclamation as potential habitats for bats.

ACKNOWLEDGMENTS

I extend my sincere thanks to the following individuals who provided valuable information or assistance relative to sandstone mining at the Smallwood mine, Latto quarry, and the quarry at California Hollow: Shirley Bartles and Helen Van Dyke (Empire, Ohio); Mary Robinson (Stratton, Ohio); Wendell B. and Wendell A. "Wink" Reese (Empire, Ohio); Sandy Day (Schiappa Memorial Library); Susan Burkett (Cincinnati, Ohio); Mr. and Mrs. Parker Burkett (Empire); Andrew Milarcik (Tippecanoe, Ohio); Michael Puskarich (Cadiz, Ohio); Robert and Carl Mattern (East Liverpool, Ohio); Steven Gordon (Ohio Historical Society, Ohio Historic Preservation Office); David Simmons (Ohio Historical Society, Timeline); Max Luehrs (U.S. Office of Surface Mining); James Gue, Hal Miller, Mark Smith, and Jeffrey Reichwein (Ohio Division of Mines and Reclamation), and David Swanson (Ohio Division of Wildlife).

I am deeply indebted to the following individuals and organizations for contribution of the photographs that provided valuable insight into the mining of sandstone and preparation of pulpstones: Shirley Bartles (Empire, Ohio), Wendell B. Reese (Empire, Ohio), The Museum of Ceramics (East Liverpool, Ohio), and the Ohio Division of Mines and Reclamation.

Note: additional photos of pulpstone and grindstone operations are on p. 17, 23, 25, 31, 35, and 53 of this book.

1995 OHIO MINERAL INDUSTRIES REPORT

VALUE OF GRINDSTONES AND PULPSTONES PRODUCED IN THE UNITED STATES AND OHIO, 1880-1937¹

Year	Total U.S. grindstone and pulpstone	U.S. grindstone	U.S. pulpstone	Total Ohio grindstone and pulpstone
1880	\$500,000	NA ²	NA	
1881	500,000	NA	NA	
1882	700,000	NA	NA	
1883	600,000	NA	NA	
1884	570,000	NA	NA	
1885	500,000	NA	NA	
1886	250,000	NA	NA	
1887	224,400	NA	NA	
1888	281,800	NA	NA	
1889	439,587	NA	NA	
1890	450,000	NA	NA	
1891	476,113	NA	NA	
1892	272,244	NA	NA	NA
1893	338,787	NA	NA	NA
1894	223,214	NA	NA	NA
1895	205,768	NA	NA	NA
1896	326,826	NA	NA	NA
1897	368,058	NA	NA	NA
1898	489,769	NA	NA	NA
1899	675,586	NA	NA	NA
1900	710,026	NA	NA	NA
1901	580,703	\$561,903	\$18,800	NA
1902	667,431	644,343	23,088	NA
1903	721,446	687,476	33,970	\$646,776
1904	881,527	820,207	61,320	767,552
1905	777,606	726,536	51,070	644,315
1906	744,894	694,894	50,000	644,720
1907	896,022	846,522	49,500	764,276
1908	536,095	495,495	40,600	482,128
1909	804,051	768,651	35,400	679,930
1910	796,294	746,294	50,000	699,033
1911	907,316	865,316	42,000	742,107
1912	916,339	NA	NA	787,621
1913	855,627	NA	NA	737,572
1914	689,344	NA	NA	606,001
1915	648,479	NA	NA	571,113
1916	766,140	631,497	134,643	637,919
1917	1,147,784	806,896	340,888	NA
1918	1,776,282	1,262,602	513,680	NA
1919	1,336,015	993,959	342,056	NA
1920	1,707,004	1,239,990	467,014	NA
1921	1,227,322	477,259	750,063	NA
1922	1,020,186	574,900	445,286	NA
1923	1,689,315	1,008,899	680,416	NA
1924	1,666,669	852,260	814,409	NA
1925	1,705,939	864,637	841,302	NA
1926	1,873,234	875,240	997,994	NA
1927	1,554,750	633,207	921,543	NA
1928	1,508,837	606,408	902,429	NA
1929	1,241,546	617,618	623,928	NA
1930	770,571	423,835	346,736	NA
1931	342,149	221,272	120,877	NA
1932	274,440	158,566	88,874	NA
1933	444,250	298,174	146,076	NA
1934	463,234	285,603	177,631	NA
1935	505,378	342,864	162,514	NA
1936	497,997	334,363	163,634	NA
1937	527,708	352,377	220,331	NA

¹Sources: U.S. Geological Survey (1881-1932), U.S. Bureau of Mines (1933-1938).²NA = not available.

PRODUCTION OF SANDSTONE, GRINDSTONE, AND PULPSTONE IN OHIO (IN SHORT TONS), 1914-1995¹

Year	Total sandstone	Grindstone	Pulpstone	Year	Total sandstone	Grindstone	Pulpstone
1914	633,449	44,164	NA ²	1955	2,132,603	3,150	
1915	744,888	39,395	NA	1956	1,753,820	2,595	
1916	1,111,576	44,547	NA	1957	2,054,400	1,095	
1917	1,078,615	48,071	NA	1958	2,151,976	912	
1918	840,439	54,270	17,710	1959	2,663,345	1,099	
1919	749,614	37,717	2,941				
				1960	1,693,483	1,580	
1920	849,399	37,494	7,026	1961	1,650,271	57	
1921	474,205	13,289	3,417	1962	2,214,426	689	
1922	808,199	18,477	3,417	1963	2,700,568	572	
1923	1,032,097	30,992	5,185	1964	2,160,855	780	
1924	784,694	NA	NA				
				1965	2,395,086	891	
1925	1,099,909	26,868	2,554	1966	2,526,198	67	
1926	921,695	20,896	2,557	1967	2,160,698	85	
1927	1,032,785	17,221	2,791	1968	2,181,482	64	
1928	895,809	15,091	2,072	1969	2,436,531	120	
1929	814,432	12,938	1,042				
				1970	2,333,900	58	
1930	824,315	9,248	294	1971	2,257,322	57	
1931	707,599	5,530	28	1972	2,269,659	113	
1932	404,188	2,802	0	1973	2,605,419	130	
1933	370,259	5,285	0	1974	2,374,804	109	
1934	621,989	6,005					
				1975	2,183,379	NA	
1935	674,346	5,521		1976	2,277,651	59	
1936	720,343	9,342		1977	2,441,077	89	
1937	1,068,718	13,939		1978	2,051,859	63	
1938	571,893	3,819		1979	2,771,253	70	
1939	913,940	5,774					
				1980	2,068,120	58	
1940	1,036,121	8,553		1981	2,109,828	20	
1941	1,503,817	11,242		1982	1,930,353	20	
1942	1,790,049	10,214		1983	1,509,44	79	
1943	1,518,96	26,237		1984	2,152,582	12	
1944	1,331,950	5,505					
				1985	2,073,784	22	
1945	1,371,310	5,321		1986	1,717,792	331	
1946	1,513,453	11,103		1987	1,891,899	16	
1947	1,515,353	9,749		1988	1,806,646	13	
1948	1,556,800	7,160		1989	1,794,444	1,082	
1949	1,304,743	3,916					
				1990	1,700,335	15	
1950	1,607,687	4,012		1991	1,679,512	0	
1951	2,006,234	4,891		1992	1,855,013	14	
1952	2,184,588	3,170		1993	1,933,259	0	
1953	2,309,005	2,062		1994	1,819,421	0	
1954	1,712,482	2,136		1995	1,783,308	2	

¹Sources: The Industrial Commission of Ohio (1915-1919), Ohio Division of Labor Statistics (1919-1965), Ohio Division of Mines (1966-1981), Ohio Division of Geological Survey (1983-1995).²NA = not available.

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Stone yard at the Smallwood mine at Empire where blocks of Upper Freeport sandstone were scabbled by hand, using picks and compressed-air tools. Circa 1920's. Photo courtesy of Wendell B. Reese.

1995 OHIO MINING ACTIVITIES IN BRIEF

Reports were filed in 1995 for 292 coal-mining operations, including 4 mines with their own coal-washing facility. Coal production was reported from 151 of these 292 operations. Reports also were filed for 49 separate coal-washing plants and associated facilities. Of 673 industrial-

¹Includes reported and estimated values. Some operations reporting sales did not report a value for those sales. A countywide- or statewide-average price per ton was calculated for each industrial mineral commodity based on sales for which the value was reported. A countywide average price per ton was calculated for coal based on sales for which the value was reported and method of production. These calculated averages were used to estimate the value of the sales for which the actual values were not reported.

mineral-mining operations known to be operating in 1995, 509 operations were active. A total of 51 mines reported production of multiple mineral commodities. Of this total, 30 mines reported production of multiple industrial minerals; 8 mines reported production of multiple industrial minerals and coal; and 13 mines reported production of coal and one industrial mineral. There were 561 new wells completed for oil and gas in 1995, of which 421 were productive and 140 were dry.

The total value¹ of coal was \$673,619,983 in 1995; the value of oil and gas was \$428,418,442; and the total value¹ of all nonfuel industrial minerals was \$592,443,606 in 1995.

TABLE 1. — 1995 Mineral sales and production in Ohio

Commodity	Sales ¹	Production ²	Value ³
Coal	25,431,111 tons	25,538,935 tons	\$673,619,983
Limestone and dolomite	67,567,697 tons	68,020,161 tons	\$282,857,437
Sand and gravel	50,640,409 tons	48,505,859 tons	\$195,313,568
Salt	4,032,637 tons	4,519,190 tons	\$ 64,284,242
Sandstone and conglomerate	1,783,308 tons	2,000,332 tons	\$ 32,253,601
Clay	1,622,813 tons	1,622,010 tons	\$ 8,888,713
Shale	1,768,532 tons	1,763,295 tons	\$ 6,351,769
Gypsum	248,719 tons	248,719 tons	\$ 2,362,831
Peat	18,557 tons	18,453 tons	\$ 131,445
Gas	4	126,335,936 MCF ⁶	\$291,211,591
Oil	4	8,257,621 barrels	\$137,206,851

¹Includes material for captive use.

²The production figures for the industrial minerals are estimates. Many operators do not know actual production. Some operators report estimates, other operators do not report any production. For those operators who do not report production, production is assumed to equal sales.

³The FOB value of industrial minerals sold was estimated for those mines which failed to report this information and for those producing material for captive use. These estimates were calculated using a countywide- or statewide-average price per ton calculated on reported FOB values.

⁴Figure not available.

⁶Thousand cubic feet.

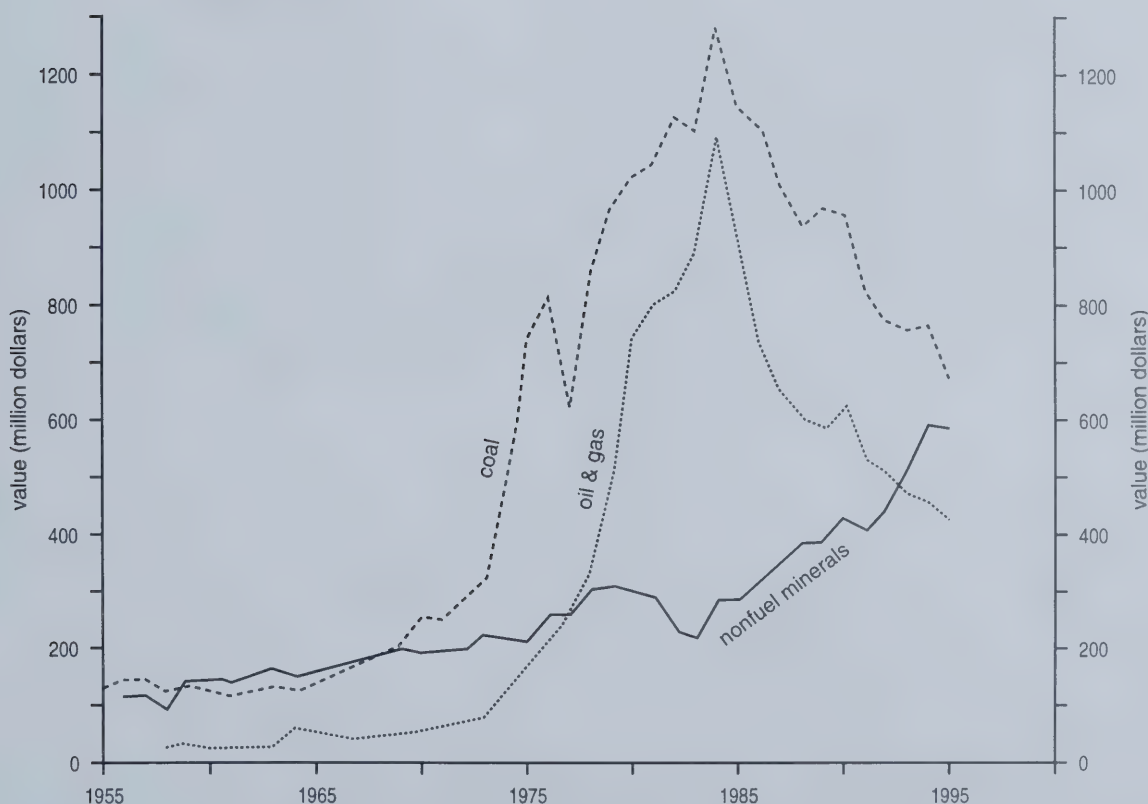


FIGURE 1.—Value of coal, nonfuel minerals, and oil and gas in Ohio.

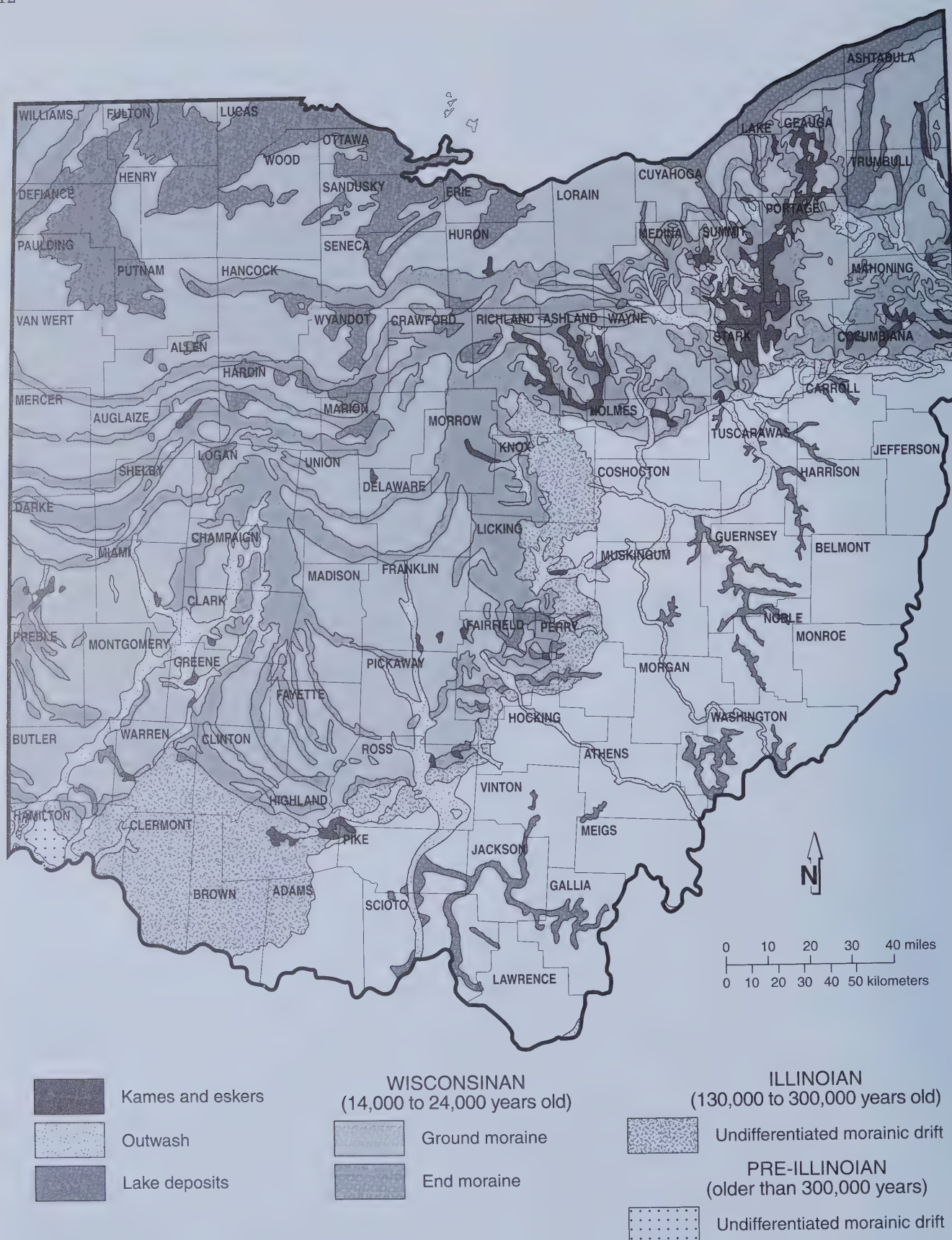


FIGURE 2.—Generalized map of the glacial deposits of Ohio. Continental glaciers advanced over the Ohio landscape several times during the Ice Age. These glaciers deposited unconsolidated materials on top of the bedrock over nearly two-thirds of the state. Most of Ohio's sand and gravel production comes from kames, eskers, and outwash, which were deposited by meltwater from the glaciers. Other glacially derived industrial minerals in Ohio include peat and clay.

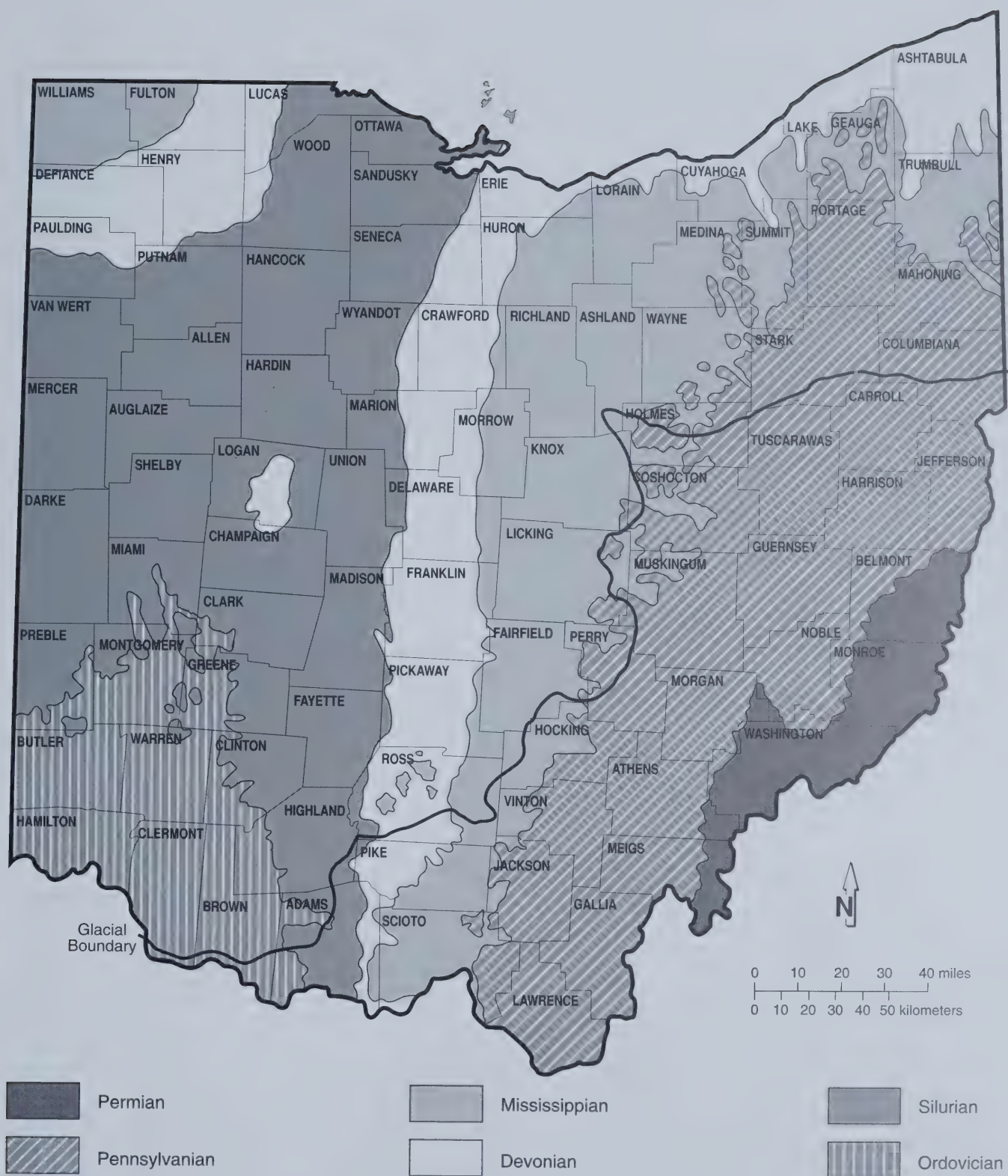


FIGURE 3.—Generalized geologic map of Ohio. Mineral production occurs throughout Ohio and from every geologic system from the Cambrian to the Permian. Coal, limestone and dolomite, sandstone and conglomerate, shale, clay, gypsum, salt, and oil and gas are produced from Ohio bedrock.

COAL

Coal was produced by 63 companies at 151 mines in 23 Ohio counties during 1995. Production decreased 10.7 percent from 1994, totalling 25,538,935 tons in 1995; 12,457,262 tons (48.8 percent of total production) were produced at 143 surface mines, and 13,081,673 tons (51.2 percent of total production) were produced at 8 underground mines. This was the first year since 1948 that tonnage from underground production exceeded tonnage from surface production. Of 25 coal-producing states, Ohio ranked 15th in 1995. The top five states, in descending order of production, are Wyoming (264.0 million tons), West Virginia (164.1 million tons), Kentucky (151.1 million tons), Pennsylvania (61.8 million tons), and Texas (52.3 million tons). These five states produced 67.3 percent of the nation's coal in 1995. Ohio produced 2.4 percent of the nation's coal in 1995. The top five coal-consuming states, in descending order of consumption, are Texas, Indiana, Ohio, Pennsylvania, and Illinois. These five states used 32.6 percent of the total coal consumed by all 50 states in 1995.²

In comparison to 1994, there were 22 fewer mines reporting production of 50,000 tons or less, 21 fewer mines producing between 50,000 and 500,000 tons, 2 more mines producing between 500,000 and 1,000,000 tons, and the same number of mines reporting production of 1,000,000 tons or greater; there was a net decrease of 41 mines in 1995.

The five leading counties for 1995 production were Belmont, Meigs, Vinton, Monroe, and Harrison Counties; these counties produced 64.4 percent of the 1995 total production. A total of 25,431,111 tons of coal were sold in

1995; total value³ was \$673,619,983. The average price per ton of all coal sold was \$26.49; surface-mined coal averaged \$24.28 per ton and underground-mined coal averaged \$28.60.

In underground mining, 27.7 percent of the coal was mined by continuous miner and 72.3 percent was produced by longwall mining; no coal was produced by conventional mining in 1995. In surface operations, 9.7 percent of the coal produced was auger mined, and 90.3 percent was mined by conventional surface methods.

The Pittsburgh (No. 8) coal was the most heavily mined seam, followed by the Clarion (No. 4A), Middle Kittanning (No. 6), Meigs Creek (No. 9), and Lower Kittanning (No. 5) seams. Coal produced from these five seams constituted 83.5 percent of the total 1995 production.

A total of 17,535,898 tons of washed coal were reported in 1995. Reports from 14 coal-washing plants indicate an average 30.7 percent loss in washing.

Trucking was the primary means of coal disposition, carrying 44.7 percent of the total sales. Conveyor belts carried 25.2 percent, water transported 15.6 percent, and rail carried 14.5 percent of the coal sold in 1995. A total of 774,866 tons (3.0 percent) of the coal produced was reported as stored.

The total average annual employment reported in 1995 was 3,458 employees; 1,904 of these were production employees. Production employees worked an average of 164 days producing coal in 1995. The average annual wage earned by all production employees was \$38,828, based on those employees for whom wages were reported. The average annual wage for surface-mine production employees was \$32,307, and the average annual wage for underground-mine production employees was \$45,378. Wages earned by all employees totalled \$143,144,718 in 1995.

²Preliminary information from U.S. Department of Energy, Energy Information Administration.

³Includes reported and estimated values. See footnote 1, p. 11.

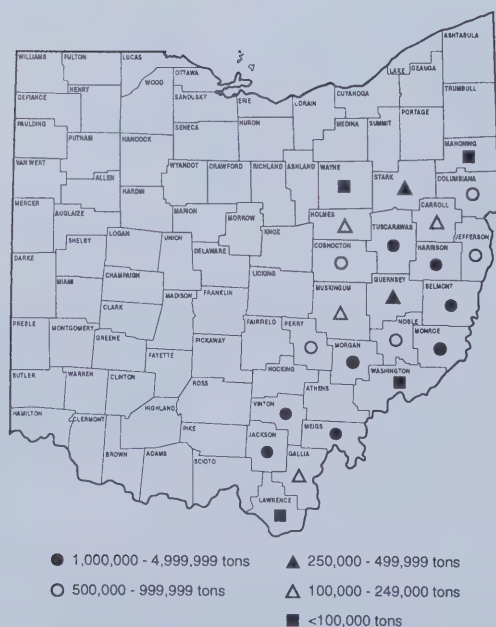


FIGURE 4.—Coal production in Ohio in 1995, by county.

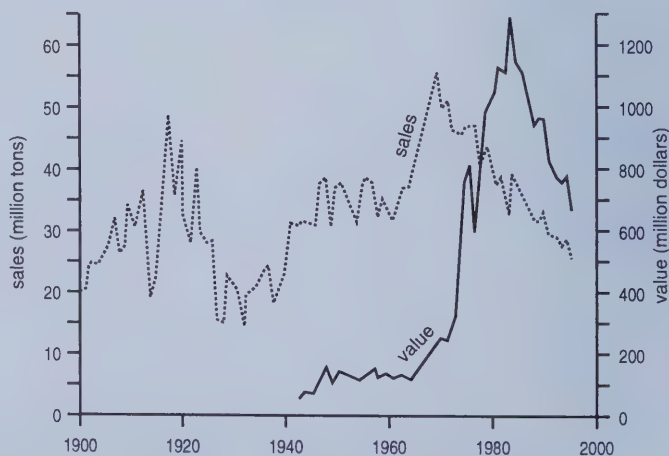


FIGURE 5.—Sales and value of coal in Ohio.

TABLE 2. — 1995 Ohio coal production by production-size group and change from 1994

Production-size group	1995		Change from 1994 (short tons)
	Number of mines reporting	Production (short tons)	
Under 25,000 tons	60	582,731	- 139,093
25,000 to 49,999 tons	26	956,709	- 328,543
50,000 to 99,999 tons	27	1,959,821	- 693,507
100,000 to 249,999 tons	23	3,563,475	- 1,398,733
250,000 to 499,999 tons	4	1,457,742	- 1,252,605
500,000 to 999,999 tons	6	4,571,048	+ 1,607,880
1,000,000 tons and over	5	12,447,409	- 854,879
TOTAL	151	25,538,935	- 3,059,480

TABLE 3. — 1995 Ohio coal production by county and mining method

County ¹	All methods (short tons)	Total number of mines	Underground				Surface			
			Number of underground mines reporting	Production (short tons)			Number of surface mines reporting	Production (short tons)		
				Total underground	Longwall	Continuous miner		Total surface	Strip	Auger
Belmont	4,968,214	18	1	3,946,018	3,119,071	826,947	17	1,022,196	758,870	263,326
Carroll	241,189	3 ²					3 ²	241,189	241,189	
Columbiana	727,608	10					9	386,136	322,194	63,942
Coshocton	873,757	9					9	873,757	862,496	11,261
Gallia	189,149	1					1	189,149	189,149	
Guernsey	261,572	6	1	958,817		958,817	6	261,572	227,386	34,186
Harrison	2,165,303	13					12	1,206,486	716,845	489,641
Holmes	152,496	5					5	152,496	152,496	
Jackson	1,472,566	7 ²					7 ²	1,472,566	1,472,566	
Jefferson	725,327	10					8	333,230	243,119	90,111
Lawrence	3,157	2	2	3,565,169	3,034,857	530,312	2	3,157	3,157	
Mahoning	4,955	1					1	4,955	4,955	
Meigs	3,565,169	2								
Monroe	2,722,130	1								
Morgan	1,058,122	1					1	1,058,122	1,058,122	
Muskingum	173,257	1	1	2,722,130	2,384,175	337,955	1			
Noble	747,364	6					6	173,257	167,064	6,193
Perry	613,070	5					5	747,364	747,364	
Stark	334,214	8					8	613,070	464,224	148,846
Tuscarawas	1,419,592	33					33	334,214	334,214	
Vinton	3,035,809	8 ²	1 ³	1,155,970	917,744	238,226	8	1,419,592	1,314,942	104,650
Washington	75,191	1 ⁴					8	1,879,839	1,879,839	
Wayne	9,724	1					1 ⁴	75,191	75,191	
TOTAL	25,538,935	151	8	13,081,673	9,455,847	3,625,826	143	9,724	9,724	
								12,457,262	11,245,106	1,212,156

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.²Does not include mines extending into this county from adjoining counties.³This mine extends into Vinton County from Meigs County and is not included in the total number of mines.⁴This mine extends into Washington County from Noble County and is not included in the total number of mines.

TABLE 4. — 1995 Ohio coal production by county and month

County ¹	Production (short tons)												
	Total annual	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	4,968,214	539,917	450,058	315,149	336,860	501,393	397,480	447,843	488,969	285,510	500,478	292,299	412,258
Carroll	241,189	19,161	15,184	19,932	15,665	19,011	22,682	17,819	15,437	21,919	23,202	27,064	24,113
Columbiana	727,608	72,888	62,590	58,078	60,866	66,904	54,605	55,987	59,493	66,849	60,917	56,174	52,257
Coshocton	873,757	67,473	71,869	74,349	73,896	81,421	76,920	56,313	79,540	65,162	83,528	82,610	60,676
Gallia	189,149	832	5,187	11,542	22,600	12,215	30,980	14,028	21,722	19,694	14,712	20,451	15,186
Guernsey	261,572	10,908	15,272	30,070	15,319	11,316	43,705	12,169	12,861	37,518	16,561	18,792	37,081
Harrison	2,165,303	169,113	169,783	218,466	186,285	192,001	193,333	181,078	138,028	184,191	193,749	183,897	155,379
Holmes	152,496	7,289	8,803	20,995	6,351	5,467	32,839	2,617	1,157	26,509	885	0	39,584
Jackson	1,472,566	124,308	104,615	152,504	95,088	94,425	138,235	95,465	97,022	144,127	128,160	127,241	171,376
Jefferson	725,327	74,511	63,507	64,064	72,536	51,156	44,920	41,121	45,567	48,596	63,508	73,533	81,308
Lawrence	3,157	1,216	703	21	7	3	1,118	0	89	0	0	0	0
Mahoning	4,955	1,390	1,815	1,172	433	145	0	0	0	0	0	0	0
Meigs	3,565,169	308,743	365,624	11,947	283,837	304,646	211,237	259,251	297,628	280,497	410,067	423,417	408,275
Monroe	2,722,130	290,843	303,861	365,662	0	18,706	0	228,855	191,841	290,247	349,587	313,229	369,299
Morgan	1,058,122	89,855	103,152	104,620	113,157	91,818	102,717	78,233	96,251	66,052	68,500	63,794	79,973
Muskingum	173,257	18,007	10,700	9,003	18,399	11,099	16,248	17,402	10,163	15,341	13,002	16,575	17,318
Noble	747,364	54,120	60,087	69,281	42,733	71,819	47,836	62,818	70,231	61,982	72,586	59,188	74,683
Perry	613,070	47,915	46,097	58,822	44,035	39,876	45,595	42,739	52,443	47,631	56,511	65,043	66,363
Stark	334,214	21,885	38,986	74,102	20,229	23,896	28,241	17,131	17,374	22,380	19,118	17,506	33,366
Tuscarawas	1,419,592	84,090	93,445	188,116	65,884	67,811	198,686	78,999	81,094	187,895	83,011	109,374	181,187
Vinton	3,035,809	261,947	254,214	222,128	258,264	267,977	307,476	227,705	164,910	275,844	229,958	273,600	291,786
Washington	75,191	10,144	7,140	10,465	0	4,882	8,690	6,834	1,874	4,686	6,371	8,172	5,933
Wayne	9,724	0	0	0	0	8,060	0	0	0	1,664	0	0	0
TOTAL	25,538,935	2,276,555	2,252,692	2,080,488	1,732,444	1,947,047	2,003,543	1,944,407	1,943,694	2,154,294	2,394,411	2,231,959	2,577,401

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 5. — 1995 Ohio coal production

County ¹	Production								
	Total	Sharon (No. 1)	Lower Mercer (No. 3)	Upper Mercer (No. 3A)	Brookville (No. 4)	Winters	Clarion (No. 4A)	Lower Kittanning (No. 5)	
Belmont	4,968,214								
Carroll	241,189							26,147	
Columbiana	727,608				24,281			10,586	
Coshocton	873,757							103,611	
Gallia	189,149								
Guernsey	261,572								
Harrison	2,165,303								
Holmes	152,496			4,688	22,681			60,416	
Jackson	1,472,566	82,720	153,738				408,468	469,449	
Jefferson	725,327								
Lawrence	3,157						3,157		
Mahoning	4,955				4,955				
Meigs	3,565,169						3,565,169		
Monroe	2,722,130								
Morgan	1,058,122								
Muskingum	173,257								
Noble	747,364								
Perry	613,070							83,850	
Stark	334,214				120,934			51,119	
Tuscarawas	1,419,592			82,907	53,448			266,103	
Vinton	3,035,809		84,902	75,818	206,215	184,177	1,624,562	513,778	
Washington	75,191								
Wayne	9,724								
TOTAL	25,538,935	82,720	238,640	163,413	432,514	184,177	5,601,356	1,585,059	

¹Production from mines operating in more than one county was evenly split between the counties involved unless a by-county breakdown was provided by the operator.



Quarry wall and discarded grindstones at a quarry in Washington County. Note the scalloped surface of the quarry wall created by a ditcher. *Circa 1920*, Ohio Division of Geological Survey file photo.

by county and seam

[illegible]

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TABLE 6. — 1995 Disposition of Ohio coal, by county

County ¹	Number of mines	Disposition ¹ (short tons)						Stored
		Total ²	Rail	Water	Truck	Conveyor	Unspecified/ other	
Belmont	18	4,938,789	3,500,868	414,954	1,022,967			66,295
Carroll	3 ³	241,189			241,189			
Columbiana	10	727,608			727,608			
Coshocton	9	877,267			877,267			
Gallia	1	189,149		16,380	52,697	120,072		
Guernsey	6	261,572			261,572			
Harrison	13	2,163,180	152,773	109,657	1,898,024		2,726	20,277
Holmes	5	152,496			152,496			
Jackson	7 ³	1,472,566		21,128	1,296,565	154,873		
Jefferson	10	725,297			725,297			30
Lawrence	2	3,247			3,247			
Mahoning	1	4,955			4,955			
Meigs	2	3,513,365				3,513,365		
Monroe	1	2,722,130		2,722,130				662,754
Morgan	1	1,062,530			5	1,062,525		
Muskingum	1	173,257			173,257			
Noble	6	747,364			747,364			
Perry	5	612,354			612,354			4,825
Stark	8	334,214			334,214			
Tuscarawas	33	1,361,260	43,549		1,317,711			20,685
Vinton	8 ³	3,062,407		682,953	825,018	1,554,436		
Washington	1 ⁴	75,191			75,191			
Wayne	1	9,724			9,724			
TOTAL	151	25,431,111	3,697,190	3,967,202	11,358,722	6,405,271	2,726	774,866

¹Tonnage of coal shipped from mines operating in more than one county was evenly split between the counties involved and type(s) of disposition reported unless a by-county breakdown was provided by the operator.

²Does not reflect tonnage stored. Reflects tonnage sold and shipped from mine.

³Does not include mines extending into this county from adjoining counties.

⁴This mine extends into Washington County from Noble County and is not included in the total number of mines.

TABLE 7. — 1995 Rail shipments of Ohio coal, by county of origin and carrier

County	Number of mines	Shipments (short tons)			
		Total	Conrail	Ohio Central	Wheeling & Lake Erie
Belmont	1	3,500,868	3,500,868		
Harrison	1	152,773	11,570		141,203
Tuscarawas	1	43,549		43,549	
TOTAL	3	3,697,190	3,512,438	43,549	141,203

TABLE 8. — 1995 Washed Ohio coal

		Raw coal (short tons)	Washed coal ¹ (short tons)	Loss in washing (short tons)	Loss in washing (percent)	Percent of all washed coals
By type of mining	From surface mines	6,271,136	5,327,094 ²	944,042	15.1	30.4
	From underground mines	19,040,032	12,208,804	6,831,228	35.9	69.6
	TOTAL	25,311,168	17,535,898	7,775,270	30.7	100.0
By seam	Sharon (No. 1)	93,889	82,720	11,169	11.9	0.5
	Lower Mercer (No. 3A)	142,789	111,897	30,892	21.6	0.6
	Brookville (No. 4)	276,917	211,302	65,615	23.7	1.2
	Winters	251,217	184,167	67,050	26.7	1.1
	Clarion (No. 4A)	8,780,279	4,966,101	3,814,178	43.4	28.3
	Lower Kittanning (No. 5)	581,803	495,541	86,262	14.8	2.8
	Middle Kittanning (No. 6)	561,174	498,500 ²	62,674	11.2	2.8
	Lower Freeport (No. 6A)	541,556	440,026	101,530	18.7	2.5
	Upper Freeport (No. 7)	491,706	411,829	79,877	16.2	2.4
	Mahoning (No. 7A)	356,880	277,372	79,508	22.3	1.6
	Pittsburgh (No. 8)	9,557,923	6,682,115	2,875,808	30.1	38.1
	Meigs Creek (No. 9)	1,547,558	1,352,715	194,843	12.6	7.7
	Waynesburg (No. 11)	138,787	102,710	36,077	26.0	0.6
	Other ³	1,988,690	1,718,903 ³	269,787	13.6	9.9
	TOTAL	25,311,168	17,535,898	7,775,270	30.7	100.0

¹Total washed coal figures for 1995 reflect figures as reported by Ohio's coal preparation plants. These figures do not necessarily represent only 1995 production. In 1995, 25,538,935 tons of coal were produced, of which 14,830,529 tons (58.1%) were reported as washed by Ohio's mine operators. Coal not designated as washed or unwashed by Ohio's mine operators was assumed to be unwashed.

²The raw tonnage (before washing) and/or the clean tonnage (after washing) of coal was estimated for those mines which failed to report this information. These estimates were calculated using a statewide-average loss-in-washing percentage based on raw/washed coal values for type of mining and for seam deemed to be reliable.

³Unspecified tonnages of seams listed above.

TABLE 9. — 1995 Dollar value of coal at mine by county and mining method

County ¹	Total				Surface				Underground			
	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)	No. of mines	Tonnage sold (short tons)	Value at mine ² (dollars)	Per ton average (dollars)
Belmont	18	4,938,789	\$117,011,677	\$23.69	17	1,001,675	\$23,972,682	\$23.93	1	3,937,114	\$93,038,995	\$23.63
Carroll	3 ³	241,189	4,935,212	20.46	3 ³	241,189	4,935,212	20.46				
Columbiana	10	727,608	14,269,132	19.61	9	386,136	9,148,864	23.69				
Coshocton	9	877,267	25,864,214	29.48	9	877,267	25,864,214	29.48	1	341,472	5,120,268	14.99
Gallia	1	189,149	4,458,266	23.57	1	189,149	4,458,266	23.57				
Guernsey	6	261,572	5,367,535	20.52	6	261,572	5,367,535	20.52				
Harrison	13	2,163,180	45,319,646	20.95	12	1,206,486	23,941,873	19.84	1	956,694	21,377,773	22.35
Holmes	5	152,496	2,628,492	17.24	5	152,496	2,628,492	17.24				
Jackson	7 ³	1,472,566	34,708,381	23.57	7 ³	1,472,566	34,708,381	23.57				
Jefferson	10	725,297	16,098,900	22.20	8	333,200	6,231,137	18.70	2	392,097	9,867,763	25.17
Lawrence	2	3,247	49,848	15.35	2	3,247	49,848	15.35				
Mahoning	1	4,955	94,153	19.00	1	4,955	94,153	19.00				
Meigs	2	3,513,365	135,791,577	38.65	2	3,513,365	135,791,577	38.65	2	3,513,365	135,791,577	38.65
Monroe	1	2,722,130	62,561,408	22.98								
Morgan	1	1,062,530	52,159,598	49.09								
Muskingum	1	173,257	3,465,141	20.00	1	1,062,530	52,159,598	49.09	1	1,142,471	44,156,485	38.65
Noble	6	747,364	12,267,247	16.41	1	173,257	3,465,141	20.00				
Perry	5	612,354	14,871,437	24.29	6	747,364	12,267,247	16.41				
Stark	8	334,214	5,447,755	16.30	5	612,354	14,871,437	24.29	8	13,005,343	\$371,914,269	\$28.60
Tuscarawas	33	1,361,260	25,279,739	18.57	8	334,214	5,447,755	16.30				
Vinton	8 ³	3,062,407	89,503,640	29.23	33	1,361,260	25,279,739	18.57				
Washington	1 ⁵	75,191	1,230,886	16.37	8	1,919,936	45,347,155	23.62	1 ⁴	1,142,471	44,156,485	38.65
Wayne	1	9,724	236,099	24.28	1 ⁵	75,191	1,230,886	16.37				
TOTAL	151	25,431,111	\$673,619,983	\$26.49	1	9,724	236,099	24.28				

¹Sales reported from mines operating in more than one county were evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²The FOB value of coal sold was estimated for those mines which failed to report this information. These estimates were calculated using a countywide-average price per ton by mining method based on reported FOB values deemed to be reliable.

³Does not include mines extending into this county from adjoining counties.

⁴This mine extends into Vinton County from Meigs County and is not included in the total number of mines.

⁵This mine extends into Washington County from Noble County and is not included in the total number of mines.

TABLE 10. — 1995 Ohio coal-mine employment¹, by occupational group and month

Occupational group	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
All production workers	1,904	2,026	2,020	2,009	1,771	1,707	1,690	1,966	1,913	1,925	1,929	1,958	1,929
Underground mines	950	1,014	1,005	997	803	751	769	1,051	1,003	1,004	992	1,006	1,005
Surface mines	954	1,012	1,015	1,012	968	956	921	915	910	921	937	952	924
Supervisory, technical, and clerical	683	703	696	687	697	689	688	685	669	670	669	677	670
Central preparation plant, central shop, etc.	562	591	596	589	562	539	534	549	552	557	560	557	556
Reclamation	133	127	131	137	157	149	159	149	136	128	116	109	100
Other ²	176	181	176	183	177	158	162	176	170	176	182	182	185
TOTAL	3,458	3,628	3,619	3,605	3,364	3,242	3,233	3,525	3,440	3,456	3,456	3,483	3,440

¹Employment was estimated for mines not reporting employment.²"Other" includes all employees who are not categorized in any other employment category, such as mobile equipment operators, mechanics, or general outside workers.TABLE 11. — 1995 Ohio coal-mine production employment¹, by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	255	279	270	266	264	211	211	263	265	262	253	262	251
Carroll	29	31	33	32	32	28	29	29	29	24	29	29	26
Columbiana	65	72	68	69	61	63	60	66	65	70	66	63	62
Coshocton	69	73	71	71	67	79	72	69	70	67	68	62	55
Gallia	10	8	8	11	10	10	10	11	11	11	11	11	10
Guernsey	25	17	23	27	24	25	28	22	26	27	25	28	28
Harrison	176	186	182	189	190	187	172	158	158	166	173	175	175
Holmes	14	15	15	16	16	15	15	12	13	14	14	13	14
Jackson	116	108	109	109	118	117	116	115	114	115	124	126	123
Jefferson	65	72	74	61	73	61	62	81	51	56	59	64	60
Lawrence	3	10	7	2	2	2	7	0	2	0	0	0	0
Mahoning	1	1	1	1	1	0	1	0	0	0	0	0	1
Meigs	333	337	335	335	335	335	335	331	331	331	332	330	333
Monroe	167	219	217	217	5	5	5	236	217	219	220	220	220
Morgan	41	52	47	47	47	47	47	47	27	30	30	34	33
Muskingum	13	18	17	16	17	16	15	14	12	9	7	7	7
Noble	50	50	51	50	53	52	48	47	53	47	47	50	46
Perry	42	43	40	38	40	40	40	41	41	41	44	45	48
Stark	49	60	63	64	47	48	46	42	42	45	44	46	46
Tuscarawas	119	111	123	123	112	107	103	121	123	128	123	133	126
Vinton	256	256	260	259	253	254	260	256	257	256	253	254	259
Washington	5	7	5	5	3	4	7	4	5	6	6	5	5
Wayne	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL	1,904	2,026	2,020	2,009	1,771	1,707	1,690	1,966	1,913	1,925	1,929	1,958	1,929

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 12. — 1995 Ohio coal-mine employment¹ in central preparation plants, central shops, etc., by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	53	59	58	49	54	48	49	49	50	54	59	57	54
Columbiana	38	36	36	36	37	37	37	41	41	41	38	38	38
Coshocton	29	28	29	29	30	28	29	30	28	30	29	29	30
Guernsey	3	3	3	2	3	3	3	2	3	3	6	5	5
Harrison	24	27	27	27	26	26	21	23	21	21	23	22	22
Jackson	13	14	14	14	14	14	14	13	13	13	12	12	12
Jefferson	24	27	30	30	29	18	15	16	28	29	21	20	20
Lawrence	3	2	2	3	3	3	3	3	3	3	3	3	3
Mahoning	6	6	6	6	8	5	5	5	5	6	6	6	6
Meigs	65	65	66	66	65	64	65	65	65	65	64	65	64
Monroe	49	59	58	59	28	29	29	36	56	57	57	57	57
Morgan	93	104	105	105	104	104	104	103	80	78	77	77	76
Perry	6	8	9	9	5	5	5	6	5	5	5	5	5
Scioto	16	16	16	16	16	16	16	16	16	16	16	16	16
Tuscarawas	44	44	44	44	44	45	44	45	44	43	43	44	46
Vinton	96	93	93	94	96	94	95	96	94	93	101	101	102
TOTAL	562	591	596	589	562	539	534	549	552	557	560	557	556

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.TABLE 13. — 1995 Ohio coal-mine employment¹ in supervisory, technical, and clerical positions, by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	139	138	137	139	137	137	137	136	139	141	141	144	147
Carroll	5	6	6	4	5	4	5	5	7	4	5	5	5
Columbiana	20	21	21	21	20	20	20	21	21	20	20	20	20
Coshocton	30	31	33	32	32	31	30	29	28	28	30	29	27
Guernsey	4	4	4	4	4	4	4	4	4	4	4	4	4
Harrison	28	31	30	28	29	31	29	28	27	27	27	25	25
Hocking	1	0	0	0	1	1	1	1	1	1	1	1	1
Holmes	2	2	2	2	2	2	2	2	2	2	2	2	2
Jackson	17	17	16	17	17	17	17	16	16	16	18	18	18
Jefferson	11	15	15	11	16	11	11	9	8	10	10	12	9
Lawrence	2	2	2	2	2	2	2	2	2	2	2	2	2
Mahoning	3	3	3	3	3	3	3	3	3	3	3	3	3
Meigs	142	144	143	141	142	143	144	144	143	142	140	141	140
Monroe	67	63	63	68	68	68	68	66	68	68	69	69	69
Morgan	58	66	64	64	63	63	62	62	50	50	49	49	49
Muskingum	1	1	1	1	1	1	1	1	1	1	1	1	1
Noble	5	5	5	6	5	5	6	5	5	6	5	5	6
Perry	6	9	6	6	5	5	5	5	5	5	5	5	5
Scioto	9	9	9	9	9	9	9	9	9	9	9	9	9
Stark	6	8	5	5	8	8	8	8	5	5	5	5	5
Tuscarawas	28	27	29	26	31	27	26	30	27	29	25	30	27
Vinton	98	100	101	98	96	96	98	98	97	97	97	97	96
Washington	1	1	1	0	1	1	0	1	1	0	1	1	0
TOTAL	683	703	696	687	697	689	688	685	669	670	669	677	670

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 14. — 1995 Ohio surface coal-mine reclamation employment¹, by county and month

County ²	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	9	8	8	9	10	13	15	8	8	8	7	8	10
Carroll	3	2	2	1	1	4	4	4	5	5	4	4	4
Columbiana	4	2	4	4	6	4	4	6	6	4	3	3	3
Coshocton	13	17	19	18	22	10	18	9	9	9	9	9	9
Guernsey	1	1	1	1	1	1	2	1	0	0	1	1	1
Harrison	6	4	4	4	5	7	5	10	11	7	4	4	4
Holmes	1	0	0	0	0	0	0	1	1	2	4	2	0
Jackson	2	2	2	2	2	2	2	2	2	2	2	2	2
Jefferson	9	14	13	10	11	10	10	7	8	6	5	7	6
Mahoning	1	0	0	0	1	1	1	1	1	1	1	1	1
Morgan	67	61	66	74	79	79	79	78	67	65	60	52	46
Perry	1	4	1	1	1	1	1	1	1	1	0	0	0
Stark	3	1	0	1	3	4	4	5	4	4	4	2	2
Tuscarawas	7	5	5	5	9	8	8	10	7	9	6	8	6
Vinton	6	6	6	7	6	5	6	6	6	5	6	6	6
TOTAL	133	127	131	137	157	149	159	149	136	128	116	109	100

¹Employment was estimated for mines not reporting employment.²For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.TABLE 15. — 1995 Ohio coal-mine employment¹ in other positions², by county and month

County ³	Number of employees												
	Monthly average	January	February	March	April	May	June	July	August	September	October	November	December
Belmont	67	73	69	76	69	50	55	69	66	71	69	68	72
Columbiana	5	6	6	6	6	6	6	6	4	4	4	4	4
Coshocton	3	3	3	3	3	3	3	3	3	3	3	3	3
Harrison	1	1	1	1	1	1	1	1	1	1	1	1	1
Hocking	2	0	0	0	2	2	2	5	5	5	2	2	2
Jackson	11	10	10	10	10	10	10	11	11	11	13	13	13
Lawrence	2	6	6	6	0	0	0	0	0	0	0	0	0
Meigs	34	32	32	32	34	34	33	31	31	31	38	37	38
Morgan	11	12	11	11	11	11	11	12	11	11	11	11	11
Muskingum	1	1	1	1	1	1	1	1	1	1	1	1	1
Perry	5	4	4	4	5	5	5	5	5	5	6	6	6
Scioto	3	3	3	3	3	3	3	3	3	3	3	3	3
Stark	2	2	2	2	2	2	2	2	2	2	2	2	2
Tuscarawas	2	2	2	2	2	2	2	2	2	2	2	2	2
Vinton	27	26	26	26	28	28	28	25	25	26	27	29	27
TOTAL	176	181	176	183	177	158	162	176	170	176	182	182	185

¹Employment was estimated for mines not reporting employment.²"Other positions" includes all employees who do not belong in any other employment category, such as mobile equipment operators, mechanics, or general outside workers.³For those operations reporting activity in more than one county, employment was evenly split (to the nearest whole employee) between the counties involved unless a by-county breakdown was provided by the operator.

TABLE 16. — 1995 Wage and salary payments to Ohio coal-mine employees, by county and occupational group

County ¹	Wage and salary payments (nearest whole dollar) ²						
	All occupations	Underground production employees	Surface production employees	Central preparation plant, central shop, etc.	Supervisory, technical, and clerical	Reclamation	Other
Belmont	\$24,954,731	\$8,563,227	\$2,379,729	\$ 2,181,225	\$8,408,061	\$250,123	\$3,172,366
Carroll	1,055,405		906,869		101,618	46,918	
Columbiana	4,741,090	1,520,478	1,102,215	1,189,533	725,532	97,078	106,254
Coshocton	4,906,748		2,121,427	1,050,929	1,260,865	368,942	104,585
Gallia	312,245		312,245				
Guernsey	1,075,411		731,992	111,302	207,676	24,441	
Harrison	9,887,771	3,523,850	3,678,118	1,018,568	1,498,472	160,599	8,164
Hocking	79,786				32,211		47,575
Holmes	604,525		472,384		111,368	20,773	
Jackson	5,255,309		3,616,197	485,273	772,789	5,025	376,025
Jefferson	3,421,238	1,294,512	947,720	591,896	416,704	170,406	
Lawrence	247,011		57,872	100,896	80,839		7,404
Mahoning	315,972		16,214	228,457	59,040	12,261	
Meigs	26,092,955	13,621,756		2,599,766	8,598,834		1,272,599
Monroe	16,327,765	9,493,686		2,609,225	4,224,854		
Morgan	9,900,027		1,242,813	2,844,717	3,418,554	2,052,679	341,264
Muskingum	515,544		419,991		55,684		39,869
Noble	2,425,642		2,199,549		226,093		
Perry	1,626,623		1,121,925	115,541	166,717	12,090	210,350
Scioto	1,129,000			530,000	399,000		200,000
Stark	1,954,461		1,496,924		307,871	76,646	73,020
Tuscarawas	5,666,887		3,635,796	1,236,406	654,048	115,021	25,616
Vinton	20,372,506	5,091,273	4,112,582	3,750,133	6,277,493	109,248	1,031,777
Washington	243,759		215,778		27,981		
Wayne	32,307		32,307				
TOTAL	\$143,144,718	\$43,108,782	\$30,820,647	\$20,643,867	\$38,032,304	\$3,522,250	\$7,016,868

¹For those operations reporting activity in more than one county, wage and salary payments were evenly split between the counties involved unless a by-county breakdown was provided by the operator.

²For those operations reporting only a total wage and salary payment to all workers, an equal pay rate was assumed for all employees. In cases where quarterly employment was reported but wage and salary payments were not, wage and salary payments for that quarter were estimated from reported payments in the other quarters to arrive at the annual figure. For mines reporting employment and no wage and salary payments, wage and salary payments were estimated using a county-wide or state-wide average.



Pulpstones at the Smallwood mine. Stone in foreground has a square eye-hole that measure about 5 inches on a side. Photo by Doug Crowell, 1996.

INDUSTRIAL MINERALS

Industrial minerals, other than mineral fuels, were produced in a total of 86 Ohio counties in 1995. The combined value of all nonfuel industrial minerals sold in 1995 was \$592,443,606.

In 1995, 438 companies operated 673 industrial-mineral mining operations. Industrial minerals were produced or sold by 355 companies from 509 active operations. Forty-four of the 438 companies produced more than one mineral commodity from 51 operations. Fifteen of these companies produced coal and one or more industrial-mineral commodity from 21 operations. Twenty-nine companies produced multiple industrial-mineral commodities (no coal) from 30 operations. The remaining companies produced one industrial-mineral commodity.

Of the 38 multiple industrial-mineral operations (including those operations producing coal and more than one industrial-mineral commodity), 7 operations produced clay and shale; 8 operations produced sand and gravel and clay; 4 operations produced sandstone and sand and gravel; 3 operations produced limestone and clay; 1 operation produced limestone, clay, and shale; 2 operations produced

sand and gravel, clay, and peat; 3 operations produced limestone and shale; 1 operation produced sandstone, clay, and shale; 1 operation produced sand and gravel and peat; 1 operation produced limestone, sandstone, and clay; 1 operation produced sandstone and clay; 3 operations produced sand and gravel and limestone; and 3 operations produced sand and gravel and shale.

The 194 multiple industrial-mineral-commodity production employees worked an average of 204 days in 1995. Total wages of \$7,053,504 were paid to a total of 268 employees (194 production employees and 74 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$26,319.

The total average annual employment reported in 1995 for industrial mineral operations was 5,145 people (3,312 production employees and 1,833 nonproduction employees). Total wages for all employees at industrial mineral operations in 1995 were \$164,678,991. The average annual wage, based on those employees for whom wages were reported, was \$32,008.

TABLE 17. — 1995 Value of Ohio industrial minerals

Commodity	Sales (tons)	Change from 1994 (tons/percent)	Value ¹ (dollars)	Percent of total value
Limestone and dolomite	67,567,697	+ 4,398,258/ + 7.0	\$282,857,437	47.7
Sand and gravel	50,640,409	- 932,915/ - 1.8	195,313,568	33.0
Salt	4,032,637	- 413,281/ - 9.3	64,284,242	10.9
Sandstone and conglomerate	1,783,308	- 36,113/ - 2.0	32,253,601	5.4
Clay	1,622,813	- 212,877/ - 11.6	8,888,713	1.5
Shale	1,768,532	- 1,367,197/ - 43.6	6,351,769	1.1
Gypsum	248,719	- 10,386/ - 4.0	2,362,831	0.4
Peat	18,557	+ 11,522/ + 163.8	131,445	<0.1
TOTAL	127,682,672	+ 1,437,011/ + 1.1	\$592,443,606	100.0

¹The FOB value of industrial minerals sold was estimated for those mines which failed to report this information and for those producing material for captive use. These estimates were calculated using a countywide- or statewide-average price per ton based on reported FOB values.



Quarry of the International Pulp Stone Company at California Hollow near East Liverpool, Ohio. Stacks of rough-cut pulpstones litter the quarry floor. At left center, wearing a vest and tie, is Superintendent Bob Harvey. To his right, a stonecutter sits on a work in progress. The stonecutter would stand on the wooden scaffolding around the stone as he worked. *Circa 1916*. Information from the East Liverpool Review, January 5, 1990, p. A9. Photo courtesy of The Museum of Ceramics, from the Mattern family collection.

TABLE 18. — 1995 Employment at Ohio industrial mineral operations, by county and commodity

County ¹	Number of employees ²															
	Total		Limestone and dolomite		Sand and gravel		Sandstone and conglomerate		Clay		Shale		Salt		Gypsum	
	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction	Pro- duction	Non- pro- duction
Adams	46	8	46	8	3	0			1	0						
Allen	39	6	36	6	14	4			1	0					6	2
Ashland	15	4			13	2			2	1					4	10
Ashtabula	20	4			5	15										
Athens	11	26							1	0						
Auglaize	22	11	13	5	8	6			1	0						
Belmont	20	8	17	5	3	3										
Brown ³	0	0														
Butler	80	23			80	23										
Carroll	4	2			4	2										
Champaign	17	4			17	4										
Clark	45	19	45		45	19										
Clermont	10	8			10	8										
Clinton	44	13	44	13												
Columbiana	23	8			5	1	2	3	11	2	5	2				
Coshocton	30	40	1	1	7	35	8	2	12	1	3	27			2	1
Crawford	46	0	45	0	1	0										
Cuyahoga	74	177														
Darke	10	8	7	4	3	4										
Defiance	0	1			0	1										
Delaware	51	10	51	10	5 ⁵	2 ⁵	21	3							4	2
Erie	83	105	53	98	6	5									1	0
Fairfield	7	5														
Fayette	10	3	10	3											10	1
Franklin	167	44	61	12	96	31			1	1						
Fulton	2	2			1	1										
Gallia	12	1			12	1										
Geauga	35	75			18	4	13	67	9	3					4	4
Greene	74	179	19	158	46	18										
Guernsey	5	3	5	3												
Hamilton	88	82			86	81									2	1
Hancock	32	0	32	0	1	0										
Hardin	9	4	8	4												
Harrison	3	1	1	0							2	1				
Henry ³	0	0														
Highland	38	27	38	27												
Hocking	12	2			11	2			1	0						
Holmes	18	11			12	9			1	1					5	1
Huron	6	2			5	2	1	0	3	6					5	2
Jackson	13	8	5	0												
Jefferson	1	0	1	0												
Knox	49	25			21	23	1	0	1	0	1	0				
Lake	143	90			9 ⁵	21 ⁵	4	2	1	0	1	1	129	67	26	2
Lawrence	7	10	3	2	3	5			0	2	1	1	1	1		
Licking	27	9			21	5			4	2	1	1				

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Employment for Lake Erie sand and gravel dredging operations is included in the total employment figure for the county in which the operation is based. Employment information is not available.

LIMESTONE AND DOLOMITE

Limestone and dolomite were sold or produced by 81 companies at 121 operations in 52 Ohio counties during 1995. Sales of limestone and dolomite totalled 67,567,697 tons (+7.0 percent from 1994); Erie, Ottawa, Franklin, Delaware, and Wyandot Counties accounted for 40.7 percent of those sales. Reported known production totalled 68,020,161 tons.

Lime produced from Ohio limestone and dolomite totalled 1,299,346 tons in 1995 and came from five operations in Ottawa, Sandusky, and Wyandot Counties. Ohio ranks first nationally in the production of lime out of 35 producing states. The top five states, in descending order of lime production, are Ohio, Missouri, Alabama, Pennsylvania, and Kentucky. Ohio ranks seventh in the production of crushed stone (which includes crushed sandstone) out of 48

⁴Preliminary information from U.S. Geological Survey.

⁵Includes reported and estimated values. See footnote 1, p. 11.

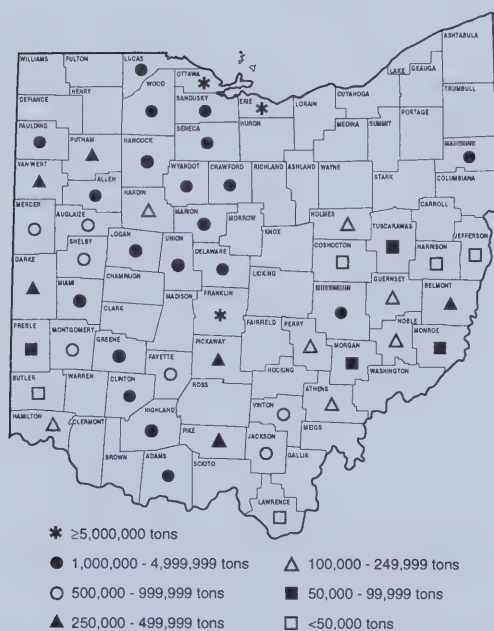


FIGURE 6.—Sales of limestone and dolomite in Ohio in 1995, by county.

producing states. The top five states producing crushed stone, in descending order, are Texas, Pennsylvania, Missouri, Florida, and Georgia.⁴

The total value⁵ of limestone and dolomite sold in 1995 was \$282,857,437. Average price per ton was \$4.19.

An annual average of 1,469 employees worked an average of 221 days to produce limestone and dolomite. Total wages of \$70,524,431 were paid to a total of 2,122 employees (1,469 production employees and 653 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$33,235. An additional 97 people (75 production employees and 22 nonproduction employees) were employed by operations mining limestone and dolomite along with one or more other mineral commodities.

Primary uses for crushed and broken limestone and dolomite were road construction/resurfacing and commercial building. Other major uses for various forms of limestone and dolomite included stone for portland cement concrete, aglime, asphaltic concrete, and the production of lime.

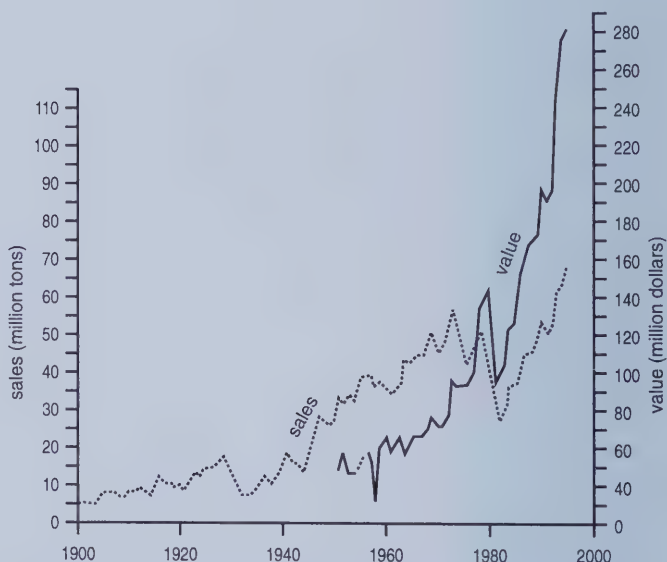


FIGURE 7.—Sales and value of limestone and dolomite in Ohio. Value line dashed where data not available.

TABLE 19. — 1995 Production of lime from Ohio stone, by county and type

County	Total tons ¹	Building (tons)	Chemical and industrial (tons)	Refractory (tons)	Other (tons)
Ottawa	117,284	74,725	42,559		
Sandusky	1,051,351		1,051,351		
Wyandot	130,711		130,711		
TOTAL	1,299,346	74,725	1,224,621	0	0

¹Burning produced a 53.7 percent weight loss.

Tons sold

County	Tons sold													
	Total all types	Crushed and broken stone								Dimension stone	Stone for portland cement manufacture	Agricultural stone (aglime)	Raw stone for burning	Unspecified/other
		Total	Riprap	Flux stone	Stone for portland cement concrete	Stone for asphaltic concrete	Road construction/facing	Commercial building	Railroad ballast					
Adams	1,961,484													
Allen	1,400,525	2,029		30,644	167,469	1,961,484	970,144	24,457	18,900			3,897		
Athens	239,973					182,985								
	239,973					239,973								
Auglaize	737,618	28,640			25,757	218,255	458,993	899				5,074		
Belmont	340,980	233,953				107,027								
Butler	38,961					38,961								
Clinton	1,520,962													
Coshocton	3,120	3,120												
Crawford	1,815,371	13,701												
Darke	371,535													
						371,535	1,468,250	11,673	111,431			70,192		
Delaware	4,740,870	4,737,455	19											
Erne	6,607,464	6,497,602		586,607	1,118,237	1,698,603	3,001,524	1,780				3,415		
Fayette	565,718	74,793				3,459,513	902,115	38,799	317,538			109,862		
Franklin	5,125,149	353				299,035			266,683					
Greene	1,301,446	573,929				4,665,497	459,299							
						573,929								
Guernsey	148,074													
Hamilton	141,287					148,074			73,537					
Hancock	1,172,100	1,073				67,750								
Hardin	189,439	7,633		17,337	17,521	48,070	896,190	267,319						
Harrison	2,551					2,551	86,566							
Highland	1,973,088	2,765					78,000							
Holmes	121,172				42,877	1,822,996								
Jackson	697,306				121,172							26,450		
Jefferson	2,552				619,255							78,051		
Lawrence	28,052				2,552									
									28,052					
Logan	1,062,156	33,614		184,559	90,277	599,906	153,800							
Lucas	2,630,769	72,796		300,000	125,000	1,955,178	168,795					9,000		
Mahoning	2,214,261	48,513												
Marion	1,116,560	15,201		44,492	40,295	242,806	757,356	7,458	48,153			7,268		
Mercer	555,545	8,000		60,000	80,000	179,000	80,000		142,545			6,000		
Miami	1,331,407	5,669		147,141	91,471	893,687			82,001			72,213		
Monroe	94,192								94,192					
Montgomery	656,362					633,558								
Morgan	73,038					73,038								
Muskingum	1,721,785	88,814		88,814	88,814	951,849	88,814	88,814	148,238			88,814		
Noble	148,281	2,312				139,959								
Ottawa	6,364,790	86,307		1,127,412	237,143	3,604,944	362,523		682,506			234,568		
Paulding	1,551,531	13,770		125,000	100,000	489,865	100,000					65,000		
Perry	204,619	204,619				204,619								
Pickaway	253,814								253,814					
Pike	353,418	25,262		3,000		309,303						15,853		
Preble	90,390	15,842				69,242								
Putnam	265,253	994		50,463		213,796			273					
Sandusky	4,457,224	1,774,010		12,233		1,505,425	37,274		195,751			349,334		
Seneca	1,725,963	23,975				1,354,018			146,070			197,841		
Shelby	800,933													
									467,962					
Tuscarawas	57,257	6,307				50,950								
Union	1,026,036	6,276		161	24,039	936,267						57,284		
Van Wert	457,263	15,108		33,191	109,402	161,690	88,436		49,436					
Vinton	534,126													
Wood	1,917,200	33,392		276,444	338,621	722,482	105,000					52,461		
Wyandot	4,656,727	75,100		378,165	407,023	440,930	1,932,763	149,070	256,124			231,757	240,070	
TOTAL	67,567,697	932,328	817,807	3,465,663	3,103,946	32,381,729	12,528,813	590,269	4,906,212	11,101	3,384,113	1,469,596	2,808,518	1,167,602

SAND AND GRAVEL

Sand and gravel were sold or produced by 245 companies at 304 operations in 63 Ohio counties plus Lake Erie during 1995. Sales⁶ of sand and gravel totalled 50,640,409 tons (-1.8 percent from 1994). Sand accounted for 25,810,711 tons of the total sand and gravel sold, and gravel accounted for 24,829,698 tons. Butler, Franklin, Portage, Hamilton, and Stark Counties led in sales, accounting for 44.0 percent of the total. Reported known production⁶ of sand and gravel totalled 48,505,859 tons in 1995. Ohio ranks fourth nationally in the production of construction sand and gravel out of 45 producing states. The top five states, in descending order of production, are California, Texas, Michigan, Ohio, and

⁶Please note—Sales and production figures for sand include material dredged from Lake Erie.

⁷Preliminary information from U.S. Geological Survey.

⁸Includes reported and estimated values. See footnote 1, p. 11.

Washington.⁷

A total of 112,398 tons of sand were dredged from Lake Erie in 1995. The Maumee Bay and Maumee River areas are no longer producing sand or gravel.

The total value⁸ of sand and gravel sold in 1995 was \$195,313,568. Average price per ton was \$3.86.

An annual average of 1,174 employees worked an average of 179 days in 1995 to produce sand and gravel. Total wages of \$53,592,616 were paid to a total of 1,738 employees (1,174 production employees and 564 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$30,836. An additional 155 people (107 production employees and 48 nonproduction employees) were employed by operations mining sand and gravel along with one or more other mineral commodities.

Road construction/resurfacing, building, asphaltic concrete, and portland cement concrete were the major uses for Ohio sand and gravel in 1995.

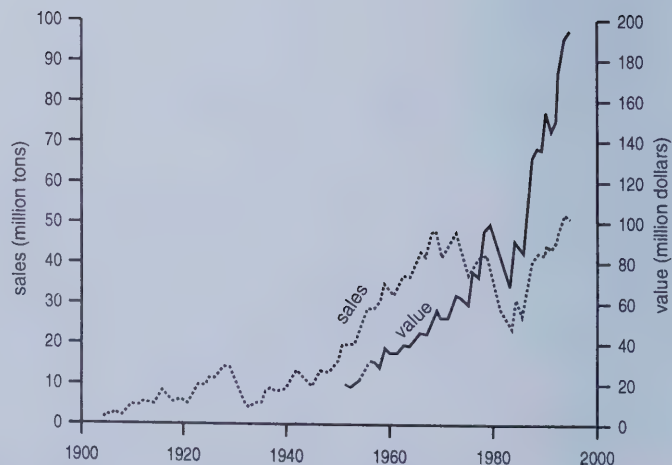
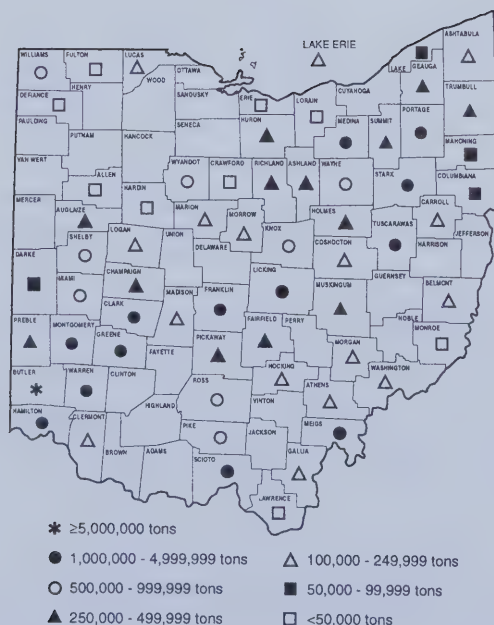


FIGURE 8.—Sales of sand and gravel in Ohio in 1995, by county.

FIGURE 9.—Sales and value of sand and gravel in Ohio. Value line dashed where data not available. Figures from 1984 to 1995 include Lake Erie dredged material.



Pulpstones awaiting shipment by rail car. These stones were produced by the International Pulp Stone Company at East Liverpool, Ohio. The labels on these stones indicate that each stone measured 54 inches in diameter, had a 54-inch-wide face, and weighed about 5 tons. *Circa* 1916. Photo courtesy of The Museum of Ceramics, from the Mattern family collection.

[illegible]

TABLE 22. — 1995 Ohio Lake Erie sand and gravel production

Area	Production ¹	
	Cubic yards	Short tons
Lake Erie		
Fairport	72,999	98,549
Vermilion-Lorain "A"	9,770	13,190
Vermilion-Lorain "B"	488	659
TOTAL	83,257	112,398

¹Production reported in cubic yards; converted to tons in the ratio of 1 cubic yard equals 1.35 short tons.

SANDSTONE AND CONGLOMERATE

Sandstone and conglomerate were sold or produced by 19 companies at 30 operations in 17 Ohio counties during 1995. Sales totalled 1,783,308 tons (-2.0 percent from 1994); Geauga, Perry, Knox, Pike, and Ross Counties accounted for 87.3 percent of that total. Crushed sandstone and conglomerate accounted for 1,747,264 tons of the total sales, and dimension stone accounted for 36,044 tons. Reported known production of sandstone and conglomerate was 2,000,332 tons in 1995. Ohio ranks seventeenth nationally in production of all dimension stone out of 35 producing states, but ranks first in the production of sandstone dimension stone. The top five states, in descending order of total dimension-stone production, are Georgia, Indiana,

⁹ Preliminary information from U.S. Geological Survey.

¹⁰ Includes reported and estimated values. See footnote 1, p. 11.

Wisconsin, Vermont, and Arizona.⁹ National standings for crushed stone are included with Limestone and Dolomite.

The total value¹⁰ of sandstone and conglomerate sold in 1995 was \$32,253,601. Average price per ton was \$17.86 for crushed stone and \$28.85 for dimension stone.

An annual average of 132 employees worked an average of 129 days in 1995 to produce sandstone and conglomerate. Total wages of \$5,269,897 were paid to a total of 225 employees (132 production employees and 93 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$23,422. An additional 60 people (48 production employees and 12 nonproduction employees) were employed by operations mining sandstone and conglomerate along with one or more other mineral commodities.

Crushed stone was used primarily for glass sand, foundry sand, construction, aggregate, and silica flour. Dimension stone was used primarily for rough construction purposes.

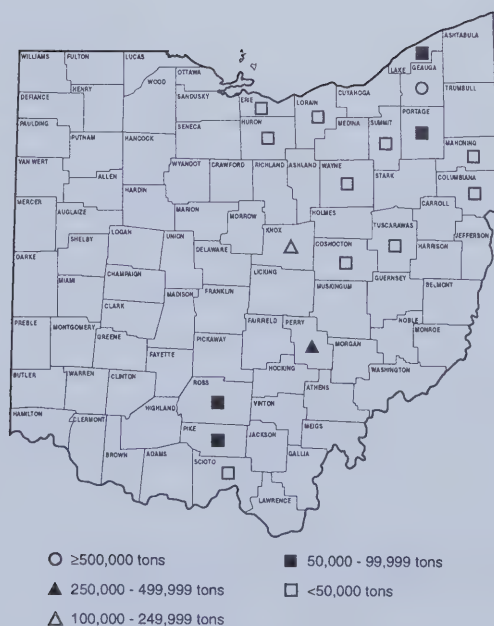


FIGURE 10.—Sales of sandstone and conglomerate in Ohio in 1995, by county.

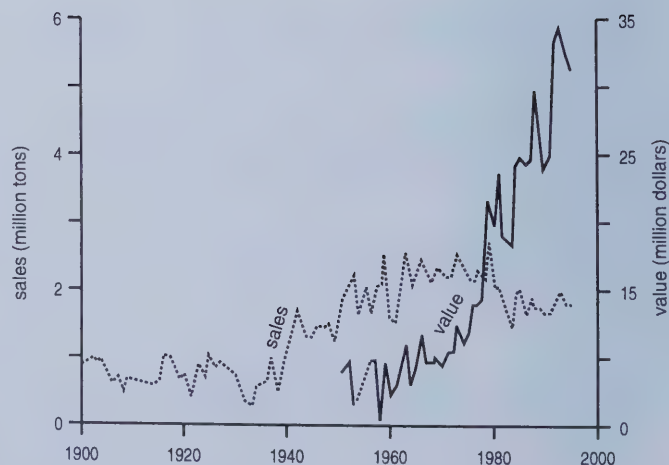


FIGURE 11.—Sales and value of sandstone and conglomerate. Value line dashed where data not available.

TABLE 23. — 1995 Ohio sales of crushed sandstone and conglomerate, by county and type

County	Tons sold													
	Total	Foundry sand	Glass sand	Metallurgical pebble	Refractory	Riprap	Aggregate	Silica flour	Polishing/grinding sand	Fire and furnace sand	Engine sand	Frac sand	Construction	Other/unspecified
Columbiana	8,233													8,233
Geauga	858,390	125,756	171,121	99,038	5,000		98,000	2,000	34,570		10,097	8,181	103,407	201,220
Huron	17,934					17,934								
Knox	167,258		59,505					52,470			5,088	1,091	49,104	
Lake	61,606						61,606							
Mahoning	7,799													7,799
Perry	367,458		231,580					93,077				1,184	30,456	11,161
Pike	92,615	40,971	460	18,521					31	2,032			10,267	20,333
Portage	56,787													56,787
Ross	69,388	48,723									56			20,609
Summit	1,784					1,784								
Tuscarawas	27,927						2,200						3,345	22,382
Wayne	10,085												10,085	
TOTAL	1,747,264	215,450	462,666	117,559	5,000	19,718	161,806	147,547	34,601	2,032	15,241	10,456	206,664	348,524

TABLE 24. — 1995 Ohio sales of dimension sandstone and conglomerate, by county and type

County	Tons sold									
	Total	Refractory	Rough construction	Rubble	Grindstones	Rough architectural	Finished	Curbing	Flagging	Other/unspecified
Coshocton	19,282		19,282							
Erie	1,113		456		2	349	120		186	
Knox	1,870		1,870							
Lorain	1,111		456			349	120		186	
Scioto	12,668		12,668							
TOTAL	36,044	0	34,732	0	2	698	240	0	372	0



Piles of finished grindstones at the Latto quarry at Tippecanoe, Ohio. Photo by Doug Crowell, 1996.

CLAY

Clay was sold or produced by 46 companies at 56 operations in 27 Ohio counties during 1995. Clay sales (including material for captive use) totalled 1,622,813 tons (-11.6 percent from 1994); Tuscarawas, Coshocton, Montgomery, Columbiana, and Athens Counties accounted for 70.5 percent of the total sales. Ohio ranks fourth nationally in the production of clay and shale out of 44 producing states. The

¹¹Preliminary information from U.S. Geological Survey.

¹²Includes reported and estimated values. See footnote 1, p. 11.

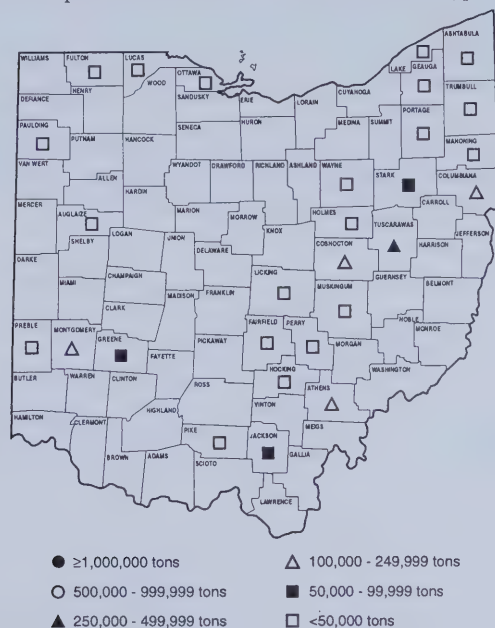


FIGURE 12.—Clay sales in Ohio in 1995, by county.

top five states in descending order of production, are California, Alabama, Texas, Ohio, and North Carolina.¹¹ Reported known production of clay was 1,622,010 tons. The total value¹² of clay sold (including material for captive use) in 1995 was \$8,888,713. Average price per ton was \$5.48.

An annual average of 82 employees worked an average of 108 days in 1995 mining clay. Total wages of \$2,230,549 were paid to a total of 115 employees (82 production employees and 33 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$19,396. An additional 124 people (85 production employees and 39 nonproduction employees) were employed by operations mining clay along with one or more other mineral commodities.

Clay mined in Ohio in 1995 was largely for captive use in the production of common clay products, the landfill industry, construction, and for cement manufacture.

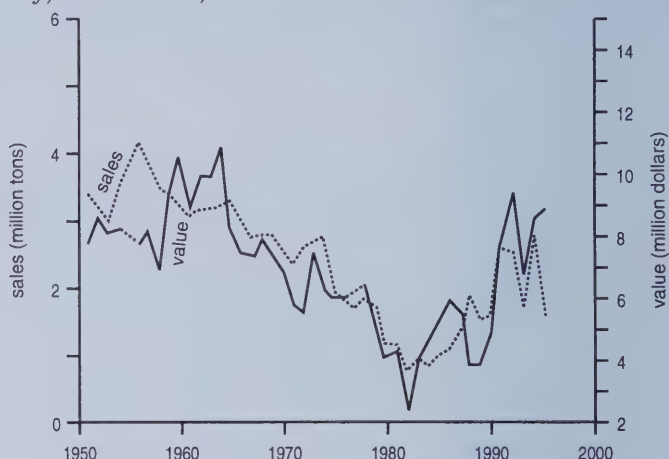


FIGURE 13.—Sales and value of clay in Ohio. Value line dashed where data not available.

TABLE 25. — 1995 Ohio clay sales, by county and type

County	Tons sold								
	Total	Common clay products	Glazed ware	Vitrified products	Cement manufacture	Refractories	Construction	Landfill use	Other/unspecified
Ashtabula	2,880						2,880		
Athens	123,038							121,677	1,361
Auglaize	4,713	4,713							
Columbiana	141,337	27,618				28,835		84,884	
Coshocton	227,913	157,088						14,400	56,425
Fairfield	2,644								2,644
Fulton	24,000							24,000	
Geauga	4,862								4,862
Greene	95,240				95,240				
Hocking	200								200
Holmes	11,321	11,321							
Jackson	62,438	60,048							2,390
Lake	810								810
Licking	38,943							38,943	
Mahoning	3,032							3,032	
Montgomery	169,564	169,564							
Muskingum	44,701			32,361					12,340
Ottawa	30,000								30,000
Paulding	22,850				22,850				
Perry	3,953			980					2,973
Pike	2,189								2,189
Portage	884						167		717
Preble	1,972						1,972		
Stark	71,344	43,600		175				27,569	
Trumbull	338						338		
Tuscarawas	482,852	268,613		37,318		16,590	160,331		
Wayne	48,795	48,000					795		
TOTAL	1,622,813	790,565	0	70,834	118,090	45,425	166,483	314,505	116,911

SHALE

Shale was sold or produced by 25 companies at 33 operations in 20 Ohio counties during 1995. Shale sales (including material for captive use) totalled 1,768,532 tons (-43.6 percent from 1994); Hamilton, Tuscarawas, Cuyahoga, Marion, and Mahoning Counties accounted for 86.4 percent of the total sales. Reported known production of shale was 1,763,295 tons. National standings for shale production are included with Clay. The total value¹³ of shale sold (including material for captive use) in 1995 was \$6,351,769.

¹³Includes reported and estimated values. See footnote 1, p. 11.

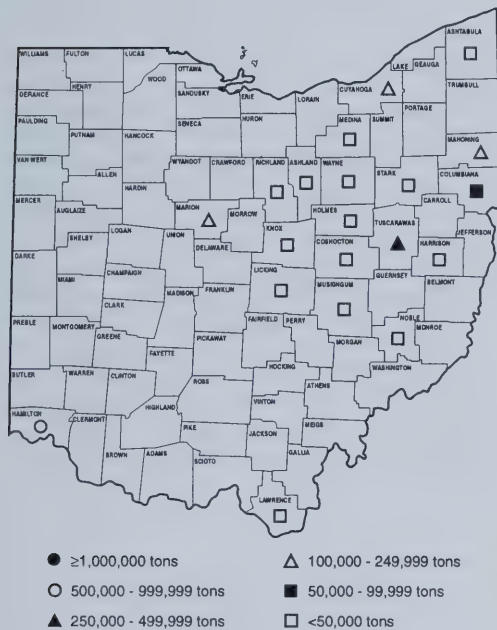


FIGURE 14.—Shale sales in Ohio in 1995, by county.

Average price per ton was \$3.59.

An annual average of 33 employees worked an average of 128 days in 1995 mining shale. Total wages of \$1,622,478 were paid to a total of 71 employees (33 production employees and 38 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$22,852. An additional 94 people (78 production employees and 16 nonproduction employees) were employed by operations mining shale along with one or more other mineral commodities.

Shale mined in Ohio in 1995 was largely for captive use in the landfill industry, production of common clay products, for lightweight aggregate, and for cement manufacture.

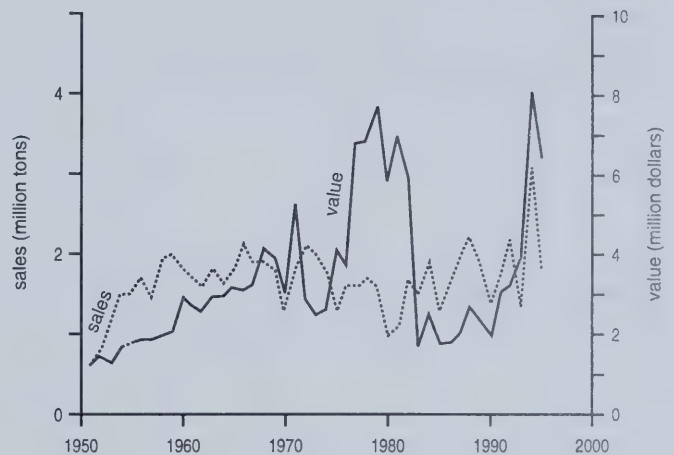


FIGURE 15.—Sales and value of shale in Ohio. Value line dashed where data not available.

TABLE 26. — 1995 Ohio shale sales, by county and type

County	Tons sold							
	Total	Common clay products	Vitrified products	Cement manufacture	Lightweight aggregate	Construction	Landfill use	Other/unspecified
Ashland	1,224	1,224						
Ashtabula	50							50
Columbiana	75,560	50,024						25,536
Coshocton	8,344	8,344						
Cuyahoga	243,164				243,164			
Hamilton	671,829						671,829	
Harrison	29,606		29,606					
Holmes	6,671	6,671						
Knox	6,536					6,536		
Lawrence	2,500					2,500		
Licking	18,867		18,867					
Mahoning	117,107			117,107				
Marion	174,759							174,759
Medina	35,314	35,314						12,513
Muskingum	12,513							
Noble	1,100	1,100						
Richland	8,800		8,800					
Stark	13,550		12,000				1,550	
Tuscarawas	321,879	315,274	6,605					
Wayne	19,159					19,159		
TOTAL	1,768,532	417,951	75,878	117,107	243,164	28,195	673,379	212,858

SALT

Salt was produced by 3 companies at 5 operations in 5 Ohio counties during 1995. Total tons of salt sold in 1995 amounted to 4,032,637 tons (-9.3 percent from 1994). Rock salt sales totalled 3,321,902 tons from 2 underground mines, one each in Cuyahoga and Lake Counties. Three brining operations, one each in Licking, Summit, and Wayne Counties, sold a total of 14,404 tons of salt in brine and 696,331 tons of evaporated salt. Reported known production of salt was 4,519,190 tons in 1995. Ohio ranks fourth nationally in the production of salt out of 14 producing states. The top five states, in descending order of production, are New York, Louisiana, Oklahoma, Ohio, and Texas.¹⁴

The total value¹⁵ of the salt sold in 1995 was \$64,284,242. Average price per ton of rock salt was \$16.18 and of salt in brine and evaporated salt was \$15.05.

An annual average of 215 employees worked an average of 311 days in 1995 to produce salt. Total wages of \$23,783,078 were paid to a total of 591 employees (215 production employees and 376 nonproduction employees). The average annual wage, based on those employees for whom wages were reported, was \$40,242. The primary use for Ohio salt was ice control. Salt was also used as an additive in animal feed, for cattle blocks, and as a commercial and residential water-softening agent.

¹⁴Preliminary information from U.S. Geological Survey.

¹⁵Includes reported and estimated values. See footnote 1, p. 11.

¹⁶Includes estimated values only. See footnote 1, p. 11.

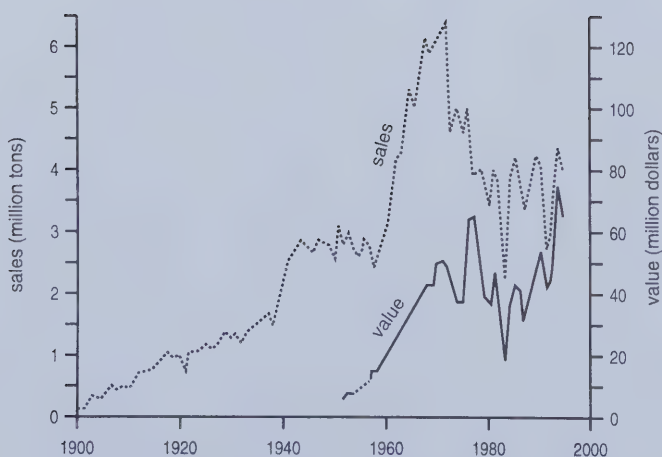


FIGURE 16.—Sales and value of salt in Ohio. Value line dashed where data not available.

GYPSUM

Gypsum was produced by 1 company at 1 operation in Ottawa County during 1995. Gypsum production and sales (all material was for captive use) totalled 248,719 tons (-4.0 percent from 1994). The reported value¹⁶ of the gypsum sold was \$2,362,831. Average price per ton was \$9.50. Ohio ranks 12th nationally in the production of gypsum out of 19 producing states. The top five states, in descending order of production, are Oklahoma, Iowa, Texas, Michigan, and Nevada.¹⁴

An annual average of 13 employees worked 321 days in 1995 producing gypsum. Total wages of \$602,438 were paid to a total of 15 employees (13 production employees and 2 nonproduction employees). The average annual wage in 1995 was \$40,163. The sole use of gypsum from this operation is for the manufacture of wallboard.

PEAT

Peat was produced by 5 companies at 5 operations in 4 Ohio counties during 1995. Peat sales (including material for captive use) totalled 18,557 tons (+163.8 percent from 1994). Champaign, Montgomery, Portage, and Williams Counties accounted for 100 percent of the total sales. The total value of the peat sold in 1995 was \$131,445. Average price per ton was \$7.08. Reported known production was 18,453 tons. Ohio ranks 10th nationally in the production of peat out of 21 producing states. The top five states, in descending order of production, are Michigan, Florida, Maine, Illinois, and Minnesota.¹⁴

Most peat operations in Ohio are owner operated. Therefore, employment information is not available.

Peat produced in Ohio was primarily used for mulch and soil mix.

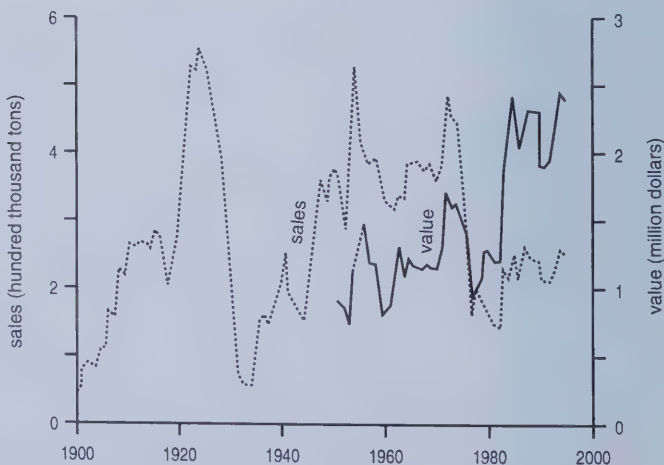


FIGURE 17.—Sales and value of gypsum in Ohio. Value line dashed where data not available. Some figures were calculated because actual figures were not reported in order to maintain confidentiality.



FIGURE 18.—Sales and value of peat in Ohio.

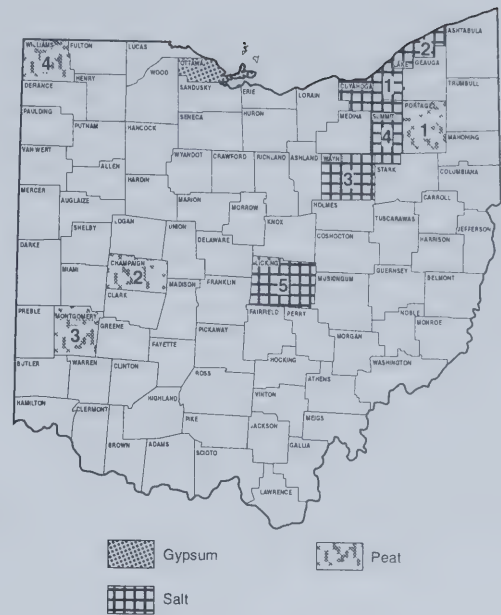


FIGURE 19.—Counties producing salt, gypsum, and peat in Ohio in 1995, and their ranking in sales.

This information is summarized from the 1995 Ohio Department of Natural Resources, Division of Oil and Gas Annual Report.

percent. Average price per barrel in 1995 was \$16.61, a 6.1 percent increase from the 1994 price.

Natural gas production in Ohio in 1995 was 126,335,936 MCF, a 3.4 percent decrease from 1994. This production figure includes an estimated 1,250,851 MCF of gas used on the lease. Through 1995, Ohio wells have produced 7,081,913 MCF of natural gas. The dollar value of natural gas produced in Ohio in 1995 was \$291,211,591, a decrease of 8.3 percent from 1994. The value of the estimated volume of gas used on the lease was not used in computing this value. The average price per MCF in 1995 was \$2.33, a decrease of 12 cents from 1994.

The combined total value of Ohio oil and gas production in 1995 was \$428,418,442, a decrease of 5.6 percent from 1994 and the lowest market value since 1978.

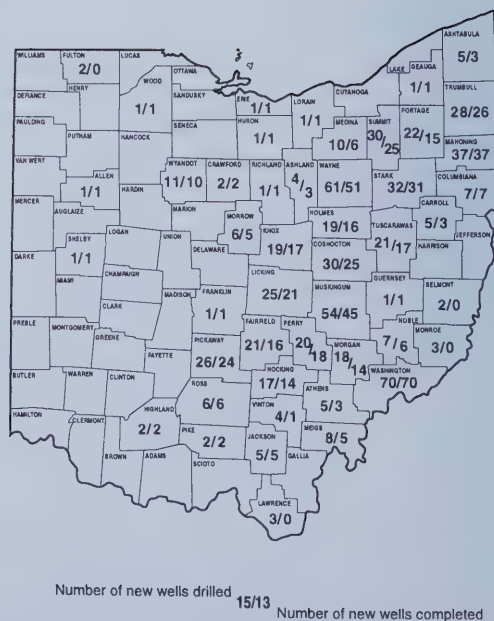


FIGURE 21.—New wells drilled for oil and gas in 1995, by county.

TABLE 27. — 1995 Ohio summary of new oil and gas well completions by county

County ^{1,2}	Development wells		Exploratory wells		Total wells	Percent productive	Drilled footage		
	Productive	Dry	Productive	Dry			Productive	Dry	Total
Allen	0	1	0	0	1	0.00	0	1,400	1,400
Ashland	3	0	0	0	3	100.00	1,844	0	1,844
Ashtabula	2	0	1	0	3	100.00	13,481	0	13,481
Athens	3	0	0	0	3	100.00	14,512	0	14,512
Carroll	3	0	0	0	3	100.00	15,999	0	15,999
Columbiana	6	1	0	0	7	85.71	30,255	915	31,170
Coshocton	20	4	1	0	25	84.00	105,784	21,596	127,380
Crawford	0	0	0	2	2	0.00	0	5,804	5,804
Erie	0	0	0	1	1	0.00	0	3,436	3,436
Fairfield	0	0	7	9	16	43.75	28,726	36,439	65,165
Franklin	0	0	1	0	1	100.00	2,878	0	2,878
Geauga	1	0	0	0	1	100.00	4,224	0	4,224
Guernsey	1	0	0	0	1	100.00	1,237	0	1,237
Highland	0	0	0	2	2	0.00	0	5,508	5,508
Hocking	4	1	5	4	14	64.29	35,924	22,120	58,044
Holmes	9	5	1	1	16	62.50	58,183	36,592	94,775
Huron	1	0	0	0	1	100.00	866	0	866
Jackson	3	1	1	0	5	80.00	11,829	2,707	14,536
Knox	12	0	4	1	17	94.12	59,117	4,918	64,035
Licking	8	1	7	5	21	71.43	58,209	27,751	85,960
Lorain	0	0	1	0	1	100.00	1,100	0	1,100
Mahoning	37	0	0	0	37	100.00	206,916	0	206,916
Medina	2	3	1	0	6	50.00	13,658	5,615	19,273
Meigs	5	0	0	0	5	100.00	23,704	0	23,704
Morgan	13	1	0	0	14	92.86	59,046	1,800	60,846
Morrow	1	2	1	1	5	40.00	6,930	10,280	17,210
Muskingum	25	5	3	12	45	62.22	141,918	105,513	247,431
Noble	6	0	0	0	6	100.00	32,754	0	32,754
Perry	10	4	1	3	18	61.11	53,623	27,911	81,534
Pickaway	5	5	6	8	24	45.83	28,438	36,610	65,048
Pike	0	0	1	1	2	50.00	1,516	4,011	5,527
Portage	11	1	1	2	15	80.00	86,460	19,038	105,498
Richland	0	0	1	0	1	100.00	1,361	0	1,361
Ross	0	0	0	6	6	0.00	0	16,264	16,264
Shelby	0	0	0	1	1	0.00	0	2,574	2,574
Stark	27	3	1	0	31	90.32	145,748	20,420	166,168
Summit	25	0	0	0	25	100.00	100,514	0	100,514
Trumbull	25	0	0	1	26	96.15	118,361	6,822	125,183
Tuscarawas	8	1	1	7	17	52.94	68,874	52,265	121,139
Vinton	0	0	0	1	1	0.00	0	5,013	5,013
Washington	62	7	0	1	70	88.57	248,950	33,107	282,057
Wayne	33	11	3	4	51	70.59	197,302	88,319	285,621
Wood	0	1	0	0	1	0.00	0	1,200	1,200
Wyandot	1	9	0	0	10	10.00	2,380	21,659	24,039
TOTAL	372	67	49	73	561	75.04	1,982,621	627,607	2,610,228

¹No wells were drilled in the following counties in 1995: Adams, Auglaize, Brown, Butler, Champaign, Clark, Clermont, Clinton, Cuyahoga, Darke, Defiance, Delaware, Fayette, Gallia, Greene, Hamilton, Hancock, Hardin, Harrison, Henry, Jefferson, Lake, Logan, Lucas, Madison, Marion, Mercer, Miami, Montgomery, Ottawa, Paulding, Preble, Putnam, Sandusky, Scioto, Seneca, Union, Van Wert, Warren, and Williams.

²No well completion information was reported for the following counties in 1995: Belmont, Fulton, Lawrence, and Monroe.

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TABLE 28. — 1995 Ohio summary of new oil and gas well completions by producing zone

Producing zone	No. of producing wells	No. of dry holes	Total no. of wells	Total footage	Percent productive
Pennsylvanian undifferentiated	19	3	22	23,060	86.36
Lower Mississippian "1st & 2nd Berea"	9	7	16	15,089	56.25
Devonian	7	0	7	14,152	100.00
Ohio Shale	6	1	7	31,053	85.71
Oriskany					
Silurian	0	1	1	4,021	0.00
Newburg	227	5	232	1,115,759	97.84
"Clinton-Medina"					
Upper Ordovician	2	0	2	4,518	100.00
Queenston-Utica					
Lower Ordovician	0	2	2	2,600	0.00
Trenton	15	3	18	116,853	83.33
Beekmantown					
Cambrian-Ordovician	95	78	173	906,472	54.91
Rose Run					
Cambrian	41	34	75	352,434	54.67
Trempealeau	0	3	3	11,144	0.00
Rome-Mt. Simon					
Precambrian	0	3	3	13,073	0.00
TOTAL	421	140	561	2,610,228	75.04

TABLE 29. — Ohio counties¹ and their state mine number abbreviations²

County	Abbreviation	County	Abbreviation	County	Abbreviation
Adams	Ads	Hamilton	Hmn	Noble	Ne
Allen	An	Hancock	Hk	Ottawa	Oa
Ashland	Ald	Hardin	Hdn	Paulding	Pg
Ashtabula	Asa	Harrison	Hn	Perry	Py
Athens	As	Henry	Hy	Pickaway	Pky
Auglaize	Ae	Highland	Hd	Pike	Pke
Belmont	Bt	Hocking	Hg	Portage	Pe
Brown	Bn	Holmes	Hs	Preble	Pre
Butler	Br	Huron	Hrn	Putnam	Pm
Carroll	Cl	Jackson	Jkn	Richland	Rd
Champaign	Cpn	Jefferson	Jfn	Ross	Rs
Clark	Ck	Knox	Kx	Sandusky	Sy
Clermont	Ct	Lake	Lke	Scioto	So
Clinton	Cln	Lawrence	Le	Seneca	Sa
Columbiana	Ca	Licking	Lg	Shelby	Shy
Coshocton	Cn	Logan	Lgn	Stark	Sk
Crawford	Cd	Lorain	Ln	Summit	St
Cuyahoga	Cya	Lucas	Ls	Trumbull	Tl
Darke	Dke	Madison	Mdn	Tuscarawas	Ts
Defiance	De	Mahoning	Mg	Union	Un
Delaware	Del	Marion	Mn	Van Wert	Vt
Erie	Ee	Medina	Ma	Vinton	Vn
Fairfield	Fd	Meigs	Ms	Warren	Wn
Fayette	Fe	Mercer	Mr	Washington	Wn
Franklin	Fn	Miami	Mi	Wayne	We
Fulton	Ftn	Monroe	Me	Williams	Ws
Gallia	Ga	Montgomery	My	Wood	Wd
Geauga	Gea	Morgan	Mon	Wyandot	Wt
Greene	Ge	Morrow	Mw		
Guernsey	Gy	Muskingum	Mum		

¹Brown & Henry Counties reported no production or sales of mineral commodities in 1995.²As used for Division of Mines mine numbers.

1995 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS

For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C).

The designation (u) following the map-location number indicates an underground mine.

To convert short tons to metric tons, multiply the given tonnage by 0.907185.

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	1995 production (tons)	State mine number	Mining and reclamation permit number
Addington, Inc. 9431 U.S. Rte. 60 Ashland, KY 41102-9527 606-478-8300 Ed Newell, pres.	Dundas Job (602)	Vinton	606,471	Vn-191 ¹	D-0197, D-0867, D-0957, D-1004
American Landfill, Inc. 7916 Chapel St. SE Waynesburg, OH 44688 330-856-8800 Stephen Kilper, pres.	American Landfill, Inc. (631)	Stark	7,069	Sk-246	D-1090
Anthony Mining Co., Inc. P.O. Box 1298 Steubenville, OH 43952 614-765-4185 Albert Carapellotti, pres.	NW Piney Fork (708) Sapp (189) Omaitis (756) <i>Total mines: 3</i>	Jefferson Jefferson Jefferson	776 46,554 104,294 <i>Total tons: 151,624</i>	Jfn-829 Jfn-830 Jfn-835	D-1006 D-0983 D-1063
Avis Coal Co. P.O. Box 3373 Zanesville, OH 43702-3373 614-453-0721 Richard H. McClelland, pres.	Congo (663)	Perry	247,744	Py-A	D-0931
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 614-783-3575 Carl Baker Jr., pres.	Ullman (514) Pourhouse (626) Lee (627) Shilling (493) Estadt (760) Flint (761) <i>Total mines: 6</i>	Noble Noble Noble Noble, Washington Noble Noble	109,057 401,099 91,079 80,654 116,940 23,726 <i>Total tons: 822,555</i>	Ne-151 Ne-154 Ne-155 Ne-1008 Ne-BN Ne-BN1	D-0807 D-0900 D-0958 D-0706 D-1038 D-1032
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 330-852-2424 William H. Belden, Jr., pres.	Moomaw Pit (667) Belden Pit (261) Wallick Pit (720) Shanesville Pit (634) <i>Total mines: 4</i>	Tuscarawas Tuscarawas Tuscarawas Tuscarawas	8,631 1,444 4,397 2,279 <i>Total tons: 16,751</i>	Ts-1517 Ts-1646 Ts-1841 Ts-1939	IM-46 IM-44 IM-45 IM-47
Belville Mining Co., Inc. P.O. Box 834 Ironton, OH 45638 614-643-2331 Thomas J. Belville, pres.	Brady Creek (491) Davis Strip (759) <i>Total mines: 2</i>	Lawrence Lawrence	89 3,068 <i>Total tons: 3,157</i>	Le-B Le-BM	IM-1188, D-0746 D-1057, D-1073
Benedict, Inc. P.O. Box 315 McArthur, OH 45651 614-596-5226 W. E. Engle, pres.	Mitchell Hollow (357) Daft Pit (786) Waldron Pit (419) Allied West (420) <i>Total mines: 4</i>	Vinton Vinton Vinton Vinton	91,737 52,817 14,169 176,646 <i>Total tons: 335,369</i>	Vn-172 Vn-177 Vn-183 Vn-184	D-0445 D-0971 D-0633 D-0609
Blue Jay Enterprises, Inc. P.O. Box 641 Zoar, OH 44697 330-874-2048 Leland Ervin, pres.	Swonger-Waltz Mine (783)	Tuscarawas	2,813	Ts-520	IM-214
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	R&J (769) Lafferty (733) Mountain Spring Coal Co. (529) (u) Simballa et al. (738) McPherson (770) Cable (666) Robertsville (718) <i>Total mines: 7</i>	Carroll Carroll, Columbiana Columbiana Columbiana Columbiana Stark Stark	42,795 175,298 341,472 52,947 42,350 4,220 136,018 <i>Total tons: 795,100</i>	Cl-BIM Ca-1000 Ca-349 Ca-999 Ca-BIM Sk-249 Sk-BI	D-1107 D-1055 D-0928 D-1074 D-1112 D-0960 D-1043
Buckingham Mining & Reclamation, Inc. P.O. Box 31 Shawnee, OH 43782-0031 800-336-9163 Richard McClelland, pres.	Pine Run (762) Shawnee-Imbler (763) <i>Total mines: 2</i>	Perry Perry	151,480 45,932 <i>Total tons: 197,412</i>	Py-BM1 Py-BM2	D-1089 D-1093
C & E Coal, Inc. 272 Township Hwy. 250 Toronto, OH 43964 614-537-1498 Amos L. Rawson, pres.	Applegate (646)	Columbiana	39,573	Ca-986	D-0975, D-1111

¹This mine was operated January through October 1995 by Addington, Inc. and November through December 1995 by Waterloo Coal Co., Inc.

1995 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	1995 production (tons)	State mine number	Mining and reclamation permit number
C L A Coal Co. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 614-922-3942 Mary J. Brown, pres.	Berresford (649)	Guernsey	17,473	Gy-C	D-0910
Cedar Heights Clay Co. Div. of Resco Products, Inc. P.O. Box 295 Oak Hill, OH 45656-0295 614-682-7794 W. T. Tredennick, pres.	Cedarloo/Jenkins/Greer (705) Katie Walke (706) <i>Total mines: 2</i>	Jackson Jackson <i>Total tons:</i>	2,592 328 2,920	Jkn-1007 Jkn-CH	IM-24, D-0813 IM-1060
Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732 614-962-2013 Gary Dimmerling, gen. mgr.	Muskingum Mine (228)	Morgan	1,058,122	Ne-41	D-0215, D-0820, D-1034, D-1084
Commercial Minerals, Inc. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 330-549-2165 W. T. Mackall, pres.	Buckeye Rd. (736) Ketchum North (737) Ketchum East (771) <i>Total mines: 3</i>	Columbiana Columbiana Columbiana <i>Total tons:</i>	39,018 2,597 76,924 118,539	Ca-997 Ca-998 Ca-CM	D-1051 D-1068 D-0999
Consolidation Coal Co. Eastern Region Cadiz, OH 43907 614-942-4335 Ben Statler, sr. v. pres., mining	Mahoning Valley #36 (150)	Harrison	773,376	Hn-700	D-0051, D-0054, D-0334, D-0414, D-0452, D-0784, D-0826
Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 614-942-4656 Michael Puskarich, pres.	Rock Hill Pit (727) Oak Park Pit (776) <i>Total mines: 2</i>	Belmont Harrison <i>Total tons:</i>	127,623 10,376 137,999	Bt-CCC Hn-C	D-1080 D-1098
Crooksville Coal Co., Inc. P.O. Box 149 Crooksville, OH 43731 614-982-6651 Ralph L. Allen, pres.	Crooksville Strip (239)	Perry	213	Py-317	D-0057, D-0085, D-0189, D-0615, D-0875
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3127 Donald Thompson, pres.	Saviers Mine (441)	Columbiana	34,867	Ca-348	D-1002
Daron Coal Co., Inc. 3296 Pleasant Valley Rd. SE Dennison, OH 44621 614-922-6829 Ronald Selway, pres.	Pleasant Valley Mine (433) Reed Mine (671) Peach Pit (766) <i>Total mines: 3</i>	Tuscarawas Tuscarawas Tuscarawas <i>Total tons:</i>	51,904 12,533 28,994 93,431	Ts-1991 Ts-DC Ts-DCC	D-0702 D-0954 D-1075
ENZ, Inc. 3497 University Dr. NE New Philadelphia, OH 44663 330-339-5313 James R. Demuth, pres.	Sickafoose-Pickens Pit (246)	Stark	120,934	Sk-208	D-0827, D-1005, D-1015
R. A. Eberts Co., Inc. P.O. Box 109 Jackson, OH 45640 614-286-2975 Phil A. Bowman, pres.	Dark Hollow (652) Carr Ridge Pit (564) Green Pit (418) <i>Total mines: 3</i>	Jackson Jackson, Vinton Vinton <i>Total tons:</i>	70,536 396,111 5,097 471,744	Jkn-1070 ² Vn-192 Vn-182	D-0997, D-1115 D-0207, D-1016 D-0631
F. & M. Coal Co. Costonia Rd. Box 171 Toronto, OH 43964 614-544-5203 Edward Fiala, owner	F. & M. Strip (186)	Jefferson	25,440	Jfn-784	D-0091, D-0728

²This mine was operated January through June 1995 by Stewart Coal Co. and July through December 1995 by R. A. Eberts Co., Inc.

1995 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	1995 production (tons)	State mine number	Mining and reclamation permit number
Fairpoint Coal Co. P.O. Box 158 Fairpoint, OH 43927 614-695-3174 Dennis Zaccagnini, pres.	Pogue Run (19)	Belmont	5,590	Bt-927	D-0483
Harrison Mining Corp. P.O. Box 176 Cadiz, OH 43907 614-942-8220 John A. McNab, pres.	Nelms Mine-Cadiz Portal (580) (u)	Harrison	958,817	Hn-710	D-0426
Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	557-Miley (740) Byesville (745) 241 Plant (161) 557-Farm (777) Charm-Berlin (753) Bolivar Mine (363) East Canton (779) Charm-Wright (719) Stone Creek (601) James (673) Clark-Reynolds (670) Slurry (680) Dennison (674) <i>Total mines: 13</i>	Coshocton Guernsey Holmes Holmes Holmes Stark Stark Stark Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas <i>Total tons:</i>	19,073 52,655 17,992 4,294 83,059 17,677 14,139 33,926 170,108 147,040 16,874 5,335 78,477 660,649	Cn-H1 Gy-327 Hs-67 Hs-HL Hs-HLC1 Sk-235 Sk-HCC Sk-HLC Ts-2023 Ts-2038 Ts-2045 Ts-HC Ts-HLC	D-1094 D-1088 IM-3, IM-768 D-1109 D-1092 IM-945, D-0865 D-1106 D-0987, D-1053 D-0796 D-0965 D-1001 D-0981 D-0969
Joyce Coal Co., Inc. P.O. Box 264 St. Clairsville, OH 43950 614-782-1330 Andy Massimino, pres.	Salt Run (757)	Jefferson	75,536	Jfn-JC	D-1067
K.C.C.I. P.O. Box 24 Morristown, OH 43759 614-782-1087 George Krulock, pres.	Susie Mine (519)	Belmont	23,291	Bt-1179	D-0840
Kimble Clay & Limestone Co. 3596 State Route 39W Dover, OH 44622-9801 330-343-1226 Floyd E. Kimble, owner	Kimble Clay & Limestone Co. (262) Kimble Clay & Limestone Co. (598) Kimble Clay & Limestone Co. (600) Kimble Clay & Limestone Co. (781) Kimble Clay & Limestone Co. (638) Kimble Clay & Limestone Co. (784) <i>Total mines: 6</i>	Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas <i>Total tons:</i>	73,788 146,993 10,211 14,799 40,847 22,463 309,101	Ts-1727 Ts-2019 Ts-2022 Ts-2031 Ts-2037 Ts-K4	IM-9 D-0852 D-0878 D-0963 D-0921 D-1079
L & M Mineral Co. 5205 State Rte. 39 Millersburg, OH 44654 330-893-2227 John E. Ling, Jr., pres.	Evans-Cox (264) Luikert (267) <i>Total mines: 2</i>	Tuscarawas Tuscarawas <i>Total tons:</i>	9,084 11,930 21,014	Ts-1884 Ts-1914	IM-6 D-0701
Red Malcuit, Inc. 707 S. Wooster Ave. P.O. Box 166 Strasburg, OH 44680-0166 330-878-7114 Mark A. Malcuit, pres.	RMI #2 (510)	Tuscarawas	18,545	Ts-2007	D-0737
Marietta Coal Co. 67705 Friends Church Rd. St. Clairsville, OH 43950 614-695-2197 George Nicolozakes, pres.	Vannest-Moore et al. (570) Consol (42) Oliver-Clark et al. (58) Ohio Fireworks (424) North American-Thornton (450) Denham-Albaugh et al. (452) AT&T (604) Dyrdek-Poe et al. (730) <i>Total mines: 8</i>	Belmont Belmont Belmont Belmont Belmont Belmont Belmont Belmont <i>Total tons:</i>	18,840 67,025 39,798 79,826 10,253 25,093 83,948 87,887 410,670	Bt-771 Bt-1109 Bt-1129 Bt-1150 Bt-1162 Bt-1164 Bt-AT Bt-M2	D-0771 D-0780 D-0491 D-0478, D-0597 D-0720 D-0742 D-0922 D-1029

1995 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	1995 production (tons)	State mine number	Mining and reclamation permit number
Miller Mining, Inc. P.O. Box 525 Sugarcreek, OH 44681 330-852-4511 Olen Miller, pres.	Carroll Mine (734)	Carroll	78,442	Cl-514	D-1081
	Harrison Mine (774)	Harrison	13,050	Hn-762	D-1100
	Beachy (752)	Holmes	18,755	Hs-524	D-1072
	Wasteland Management (704)	Holmes	28,396	Hs-525	D-1044
	Snyder (780)	Tuscarawas	11,995	Cn-TS	D-1110
	Wilmar Farms-Marino (725)	Tuscarawas	56,661	Ts-2039	D-1023
	Tunnel Hill (636)	Tuscarawas	64,674	Ts-2040 ³	D-0935
	General Clay-Scarr et al. (637)	Tuscarawas	63,034	Ts-GC	D-0962, D-0967
	Shrock-Stony Point (767)	Tuscarawas	8,188	Ts-MM2	D-1077
	Putt-Turner et al. (768)	Tuscarawas	181,397	Ts-MM3	D-1085
	<i>Total mines: 10</i>	<i>Total tons:</i>	<i>524,592</i>		
	Harlem Mine #4 (686)	Carroll	32,303	Cl-HM1	D-1035
	Germano Mine-East (746)	Harrison	9,137	Hn-757	D-1054
	<i>Total mines: 2</i>	<i>Total tons:</i>	<i>41,440</i>		
Myers Mining P.O. Box 218 Carrollton, OH 44615 330-739-2009 James L. Myers, owner					
Northshore Coal, Inc. 100 W. Main St. St. Clairsville, OH 43950 614-695-7237 Charles F. Dawson, pres.	Buckeyeville (648)	Guernsey	48,845	Gy-315	D-0951
	Whitaker (744)	Guernsey	6,912	Gy-324	D-0748
	<i>Total mines: 2</i>	<i>Total tons:</i>	<i>55,757</i>		
Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 216-765-1240 Robert E. Murray, pres.	Powhatan #6 (3) (u)	Belmont	3,946,018	Bt-68	D-0360
Oldtown Coal Co. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 614-922-3942 Mary J. Brown, pres.	Ferris #1 (735)	Columbiana	10,211	Ca-350	D-1078
Oxford Mining Co., Inc. 1811 Cambridge Rd. P.O. Box 427 Coshocton, OH 43812 614-623-0015 Charles C. Ungurean, pres.	Coshocton Landfill (772)	Coshocton	24,070	Cn-OM	D-1104
	Hinds (741)	Coshocton	25,317	Cn-OX1	D-1064, D-1113
	Adamsville (716)	Muskingum	173,257	Mum-O	D-1030
	Z-MACK (764)	Perry	167,701	Py-O	D-1086
	<i>Total mines: 4</i>	<i>Total tons:</i>	<i>390,345</i>		
Quarto Mining Co. Subsidiary of Consolidation Coal Co. 1029 Market St. Clarington, OH 43915 614-458-2016 Ben Statler, sr. v. pres., mining	Powhatan #4 (215) (u)	Monroe	2,722,130	Me-4	D-0433
R & F Coal Co. 538 North Main St. Cadiz, OH 43907 614-942-2186 D. Michael Jamison, pres.	Vcelka (391)	Belmont	21,521	Bt-948	D-0762
	Bethesda (456)	Belmont	36,126	Bt-1168	D-0619
	Dudek (568)	Belmont	29,788	Bt-1188	D-0908
	Egypt Valley West (731)	Belmont	206,012	Bt-RF2	D-1062
	Bartolec II (691)	Coshocton	42,776	Cn-P	D-1027
	Wolf-Isleta (577)	Coshocton	33,334	Cn-RF	D-0689
	Isleta Central (692)	Coshocton	47,475	Cn-RF1	D-1012
	Broken Aro (742)	Coshocton	573,438	Cn-RF3	D-1071
	Noble (743)	Coshocton	92,174	Cn-WL	D-1060
	Hartley 519 (750)	Harrison	207,487	Hn-RF1	D-1076
	Dyer-Everhart (785)	Tuscarawas	63,809	Ts-RF	D-1101
	<i>Total mines: 11</i>	<i>Total tons:</i>	<i>1,353,940</i>		
R & R Minerals, Inc. 7360 Skyview Rd. Millersburg, OH 44654 330-674-4926 Gary R. Ross, pres.	Fresno-McCleary (695)	Coshocton	16,100	Cn-841	D-1033

³This mine was operated January through June 1995 by Toronto A & L Coal, Inc. and July through December 1995 by Miller Mining, Inc.

1995 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	1995 production (tons)	State mine number	Mining and reclamation permit number
Rash Energy, Inc. 3114 U.S. Route 62 Dundee, OH 44624 330-359-5364 Freeman Mullet, pres.	Rash Energy, Inc. (676)	Wayne	9,724	We-26	IM-690, IM-1210
S. & D. Construction Corp. R.R. #1 Box 34A Irondale, OH 43932 614-544-5005 Anthony Olivito, pres.	Pipo #51 (712)	Jefferson	12,900	Jfn-SD	D-0677
Sands Hill Coal Co., Inc. 1203 N. Pennsylvania Ave. P.O. Box 470 Wellston, OH 45692 614-384-4211 Alan C. Arthur, pres.	Coal Valley (787) Sands Hill Strip #5 (623) Bethel Ridge (755) Milton (778) Sands Hill Strip #3 (513) <i>Total mines: 5</i>	Gallia Jackson Jackson Jackson Vinton	189,149 160,659 82,720 593 648,926 <i>Total tons: 1,082,047</i>	Ga-629 Jkn-1069 Jkn-S1 Jkn-SHCC Vn-S	D-1095 D-0944 D-1031 D-1108 D-0793
Melvin Schaney 47134 Giacobbi Rd. Jewett, OH 43986 614-937-2515 Melvin Schaney, owner	Melvin Schaney (748)	Harrison	609	Hn-759	D-1037
Schiappa Coal Co., Inc. P.O. Box 728 Steubenville, OH 43952 614-282-5301 Teresa C. Schiappa, pres.	Rose Valley (326) Carson Island (775) <i>Total mines: 2</i>	Harrison Harrison	10,481 69,088 <i>Total tons: 79,569</i>	Hn-222 Hn-766	D-0587 D-1041
Southern Ohio Coal Co. P.O. Box 490 Athens, OH 45701 614-286-5051 Jim Tompkins, gen. mgr.	Meigs Mine #31 (212, 300) (u) Meigs Mine #2 (213) (u) <i>Total mines: 2</i>	Meigs, Vinton Meigs	2,311,940 2,409,199 <i>Total tons: 4,721,139</i>	Ms-293 Ms-294	D-0354, D-0463 D-0355
Sterling Mining Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452 330-549-2165 W. T. Mackall, pres.	Sterling North (657) (u) Sterling South (758) (u) <i>Total mines: 2</i>	Jefferson Jefferson	319,060 73,037 <i>Total tons: 392,097</i>	Jfn-823 Jfn-ST	D-0949 D-1019
Stewart Coal Co. Lake Alma Rd. P.O. Box 408 Wellston, OH 45692 614-286-4696 William F. Stewart, pres.	Dark Hollow (652)	Jackson	32,983	Jkn-1070 ⁴	D-0997
Sugarcreek Clay & Limesone, Inc. P.O. Box 402 Sugarcreek, OH 44681 330-852-4440 Daniel O. Miller, pres.	Guernsey Pit (773) Ladrach-Lang (722) <i>Total mines: 2</i>	Guernsey Tuscarawas	35,081 19,298 <i>Total tons: 54,379</i>	Gy-317 Ts-2042	D-1011 D-0993
Sunnydale Mining 88740 Fairview Rd. Jewett, OH 43986 614-946-4291 Robert Stewart, owner	Snyder (621) Dodds (749) <i>Total mines: 2</i>	Harrison Harrison	842 2,046 <i>Total tons: 2,888</i>	Hn-240 Hn-761	D-0917 D-1082, D-1097
Thompson Bros. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3979 J. E. Thompson, pres.	North Lima Mine (205)	Mahoning	4,955	Mg-65	D-0374

⁴This mine was operated January through June 1995 by Stewart Coal Co. and July through December 1995 by R. A. Eberts Co., Inc.

1995 OHIO ALPHABETICAL DIRECTORY OF PRODUCING COAL-MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	1995 production (tons)	State mine number	Mining and reclamation permit number
Toronto A & L Coal, Inc. R.D. #2, Box 177 Toronto, OH 43964 614-537-1498 Amos L. Rawson, pres.	Tunnel Hill (636)	Tuscarawas	23,925	Ts-2040 ⁵	D-0935
Valley Mining, Inc. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 614-922-3942 Mary J. Brown, pres.	Egypt Valley (732) Snyder-Bush (696) Kurtz (714) Crim (555) <i>Total mines: 4</i>	Belmont Guernsey Jefferson Tuscarawas <i>Total tons:</i>	143,513 100,606 28,426 44,351 316,896	Bt-VM Gy-318 Jfn-833 Ts-2005	D-1059 D-1025 D-1049 D-0769
Varkony Mining Co. P.O. Box 427 Hopedale, OH 43976 614-937-2777 Stephen Varkony, Sr., pres.	Varkony Mining Co. (146)	Harrison	50,083	Hn-217	D-0440
W. B. Coal Co., Inc. R.D. 1 Box 40 Bloomingdale, OH 43910 614-221-0101 Wayne Boich, pres.	McGinness Bros. #4 (751)	Harrison	59,911	Hn-WB	D-1046
Waste Management of Ohio, Inc. dba Countywide RDF 3619 Gracemont St. SW East Sparta, OH 44626 330-874-3855 Greg A. Terwilliger, mgr.	Countywide RDF (248)	Stark	231	Sk-217	D-0938
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 614-682-7787 Phil A. Bowman, v. pres.	Bowman Strip (165) Dundas (602) <i>Total mines: 2</i>	Jackson Jackson, Vinton <i>Total tons:</i>	838,179 171,841 1,010,020	Jkn-367 Vn-191 ⁶	D-0205, D-0594, D-0892, D-0968, D-1083 D-0867, D-0957, D-1004
Weirton Construction Co. 401 Pennsylvania Ave. Weirton, WV 26062 304-748-1400 Donald R. Donell, pres.	#19 (180)	Jefferson	39,304	Jfn-687	D-0404, D-0939
Frank Widmor Coal Co., Inc. P.O. Box 176 Blaine, OH 43909 614-635-4811 Jay Van Dyne, pres.	Frank Widmor Coal Co., Inc. (603)	Belmont	18,062	Bt-1190	IM-1089, D-1061
J. E. Ziegler Dozer Service 215 E. Second St. Dover, OH 44622 330-364-2703 Jeffrey E. Zeigler, pres.	Eberhart (782)	Tuscarawas	653	Ts-2046	D-1056
Zoar Mining Co. P.O. Box 550 Zoar, OH 44697 330-223-1511 David W. Johnson, pres.	Zoar Mining Co. (258)	Tuscarawas	2,118	Ts-540	IM-28

⁵This mine was operated January through June 1995 by Toronto A & L Coal, Inc. and July through December 1995 by Miller Mining, Inc.⁶This mine was operated January through October 1995 by Addington, Inc. and November through December 1995 by Waterloo Coal Co., Inc.

1995 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND ASSOCIATED FACILITIES, BY COUNTY

For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C).

County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Belmont	Consolidation Coal Co. Eastern Region Cadiz, OH 43907 614-942-4335 Ben Statler, sr. v. pres., mining	General Services 105	Wheeling	Hn-5		general services
	Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 614-942-4656 Michael Puskarich, pres.	Bellaire River Dock Holloway Tipple	Pultney Flushing	Bt-876 Bt-963	D-0687 D-0763	loading dock tipple
	Marietta Coal Co. 67705 Friends Church Rd. St. Clairsville, OH 43950 614-695-2197 George Nicolozakes, pres.	Marietta Coal Co. (3)	Pultney	Bt-936	D-0216	loading dock, prep plant — jig, flotation, centrifugal dryer, crushers, screens
	Ohio River Collieries, Inc. P.O. Box 128 Bannock, OH 43972 614-968-3504 Tony Gentile, pres.	Lafferty Tipple Lafferty Truck Shop	Union Union	Bt-947 Bt-1093	D-0773 D-0773	tipple shop
	Ohio Valley Coal Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 216-765-1240 Robert E. Murray, pres.	Powhatan #6 (4)	Smith, Washington	Bt-68	D-0360	prep plant — jigs, cyclones, centrifuges, thickeners, filters, screens
	Ohio Valley Transloading Co. 56854 Pleasant Ridge Rd. Alledonia, OH 43902 216-765-1240 Robert E. Murray, pres.	Harbour Facility	York	Bt-1198		dock
	R & F Coal Co. 538 North Main St. Cadiz, OH 43907 614-942-2186 D. Michael Jamison, pres.	Bellaire River Dock	City of Bellaire	Bt-832	D-0838	dock
	Rayle River Coal 67705 Friends Church Rd. St. Clairsville, OH 43950 614-695-2197 George Nicolozakes, pres.	Rayle River Terminal	Pultney	Bt-1191		coal transfer facility
Carroll	James Bros. Coal Co. 190 S. Main St. P.O. Box 425 Magnolia, OH 44643 330-866-9388 Richard James, Jr., pres.	James Bros. Tipple	Rose	Cl-17	D-0705	tipple
Columbiana	Buckeye-Industrial Mining Co. P.O. Box 389 Lisbon, OH 44432 330-337-9511 John C. Grisham, pres.	Kensington Preparation Plant (5) Gavers Preparation Plant (29)	West Wayne	Ca-879 Ca-932	D-0806 D-0532	prep plant — heavy-media washer, cyclone, centrifuges, breaker prep plant — Jeffrey jig system
	C & E Coal, Inc. Route 2 Box 177 Toronto, OH 43964 614-537-1498 Amos L. Rawson, pres.	C & E Coal, Inc. (6)	Madison	Ca-892	D-0599	tipple, prep plant — crushers, screens
	State Line Resources, Inc. Route 154 Negley, OH 44441 330-426-2728 Charles H. Muse, Jr., pres.	State Line Resources, Inc. (33)	Middleton	Ca-505	D-0223	prep plant — crushers, cyclones, screens

**1995 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY – Continued**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Coshocton	Conesville Coal Preparation Co. 14561 Twp. Rd. 263 Conesville, OH 43811 614-687-3209 H. D. Leppla, gen. mgr.	Conesville Coal Preparation Co. (7)	Franklin	Cn-810		prep plant — jig, cyclones, froth cells, flotation, filter press, screens, dryers
	Oxford Mining Co. 2313 Cambridge Rd. P.O. Box 427 Coshocton, OH 43812 614-623-0015 Charles C. Ungurean, pres.	Lori Tipple	Franklin	Cn-736	D-0671	tipple
	R & F Coal Co. 538 North Main St. Cadiz, OH 43907 614-942-2186 D. Michael Jamison, pres.	Barb Tipple	Franklin	Cn-748	D-0661	tipple
	Sugarcreek Clay & Limestone, Inc. P.O. Box 402 Sugarcreek, OH 44681 330-852-4440 Daniel D. Miller, pres.	Sugarcreek Tipple	Crawford	Cn-825	D-0801	tipple
Gallia	Mack Energy Co. P.O. Box 148 Union Furnace, OH 43158-0148 614-385-8521 Michael B. McCort, pres.	Mack River Tipple	Clay	Ga-236		dock, tipple
	Sands Hill Coal Co., Inc. 1203 N. Pennsylvania Ave. P.O. Box 407 Wellston, OH 45692 614-384-4211 Alan C. Arthur, pres.	Sands Hill Coal Co., Inc.	Addison	Ga-183	D-0834	tipple
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 614-682-7787 Phil A. Bowman, v. pres.	Waterloo River Dock	Addison	Ga-229	D-0725	dock, tipple
Guernsey	Thompson Mining Co. 12321 Ideal Rd. Byesville, OH 43723 614-685-6726 George Thompson, pres.	Thompson Preparation Plant (34)	Jackson	Gy-320		prep plant — crusher
Harrison	Consolidation Coal Co. Eastern Region Cadiz, OH 43907 614-942-4335 Ben Statler, sr. v. pres., mining	Georgetown Preparation Plant (8)	Cadiz	Hn-212	D-0192	prep plant — jigs, flotation, cyclones, centrifuges, filters, crushers, breaker, screens, dryer, picking tables, magnets
	Cravat Coal Co. 40580 Cadiz-Piedmont Rd. Cadiz, OH 43907 614-942-4656 Michael Puskarich, pres.	22 Shop	Moorefield	Hn-230		shop
	Harrison Processing Corp. 86395 Mine Rd. P.O. Box 250 Hopedale, OH 43976 614-942-8220 John A. McNab, pres.	Nelms Prep Plant (30)	Green	Hn-169	D-0424	prep plant — heavy-media vessel, heavy-media cyclones, spirals, dryers, thickeners, crushers, screens
	R & F Coal Co. 538 North Main St. Cadiz, OH 43907 614-942-2186 D. Michael Jamison, pres.	Cadiz Machine Shop Cadiz Lab	Cadiz Cadiz	Hn-709 Hn-709C		shop laboratory

**1995 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY — Continued**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Hocking	Mack Energy Co. P.O. Box 148 Union Furnace, OH 43158-0148 614-385-8521 Michael B. McCort, pres.	Mack Energy Tipple	Starr	Hg-M	D-0556	tipple
Jackson	Sands Hill Coal Co., Inc. 1203 N. Pennsylvania Ave. P.O. Box 407 Wellston, OH 45692 614-384-4211 Alan C. Arthur, pres.	Sands Hill Prep Plant (9)	Milton	Jkn-1055	D-0347	prep plant — heavy-media cyclone, hydrocyclones, screens, dryer, crusher, picking table, magnets
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 614-682-7787 Phil A. Bowman, v. pres.	Bowman Strip (10)	Jefferson, Madison	Jkn-367	D-0285	prep plant — jig, crushers, breaker, screens, dryers, wash tables
Jefferson	Rayland Harbor P.O. Box 2388 Wintersville, OH 43952 614-282-6405 Michael Schiappa, pres.	#40 Dock-Shop-Prep Plant (12)	Warren	Jfn-647	D-0492	dock, shop, prep plant — heavy- media washer, cyclones, crushers, breaker, screens, dryers
Lawrence	Collins Mining Co. Rte. 2 Box 48 Ironton, OH 45638 614-532-9400 C. E. Collins, v. pres.	River Dock	Hamilton	Le-415	D-0777	dock
	Harbour Marine, Inc. P.O. Box 3126 Huntington, WV 25702-0126 614-886-8444 David Wampler, chmn.	Harbour Marine, Inc.	Union	Le-420	D-0662	tipple
	Ironton Coal Co., Inc. 9431 U.S. Rte. 60 Ashland, KY 41102-9527 606-478-8300 Ed Newell, pres.	Ironton Coal Co., Inc.	Upper	Le-439		loading dock
Mahoning	East Fairfield Coal Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 330-549-2165 W. T. Mackall, pres.	Tipple Washing & Crushing Plant (13)	Beaver Beaver	Mg-621 Mg-623	D-0214	tipple prep plant — cyclones, centrifuges, thickener, filter, crushers, screens, magnets
	Thompson Bros. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3979 J. E. Thompson, owner	Thompson Bros. Mining Co.	Springfield	Mg-588	D-0711	tipple
Meigs	Southern Ohio Coal Co. P.O. Box 490 Athens, OH 45701 614-286-5051 Jim Tompkins, gen. mgr.	Meigs Mine No. 31 (14)	Salem	Ms-293	D-0354	prep plant — heavy-media washers, flotation, cyclones, centrifuges, thickeners, filters, breaker, screens
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 614-682-7787 Phil A. Bowman, v. pres.	Cheshire Dock	Salisbury	Ms-285	D-0698	tipple, dock
Monroe	Quarto Mining Co. (subsidiary of Consolidation Coal Co.) 1029 Market St. Clarington, OH 43915 614-458-2016 Ben Statler, sr. v. pres., mining	Powhatan #4 (15)	Salem	Me-8	D-0422	prep plant — jigs, cyclones, centrifuges, thickeners, filters, crushers

OCT 29 1996

IL COAL SURVEY

**1995 OHIO DIRECTORY OF COAL-PREPARATION PLANTS AND
ASSOCIATED FACILITIES, BY COUNTY – Continued**

County	Name, address, telephone number, and president/owner/manager of company	Name of plant (and map location number for coal-preparation plants)	Township	State mine number	Mining and reclamation permit number	Type of facility
Morgan	Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732 614-962-2013 Gary Dimmerling, gen. mgr.	Muskingum Mine (16)	Meigsville	Ne-41	D-0378, D-0420	tipple, prep plant — jigs, flotation, cyclones, thickener, filters, crushers, breakers, screens, magnets
Perry	Crooksville Coal Co., Inc. P.O. Box 149 Crooksville, OH 43731 614-982-6651 Ralph L. Allen, pres.	Crooksville Preparation Plant (18)	Bearfield	Py-317	D-0248	prep plant — jig, flotation, centrifugal dryer, crushers, screens
		Crooksville Tipple	Salt Creek	Py-339	D-0692	tipple
Scioto	Norfolk Southern Railroad 914 Hayport Rd. Wheelersburg, OH 45694 614-574-8491 Charles G. Howard, asst. to mgr.	NS Wheelersburg Terminal	Porter	So-96		dock
Tuscarawas	Central Fuel Co. County Rd. 55 P.O. Box 165 New Philadelphia, OH 44663 330-339-5049 Keith B. Kimble, gen. mgr.	Central Fuel Co. (20)	York	Ts-1938	D-0264	prep plant — jig, screen, dryers
	Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	Strasburg Wash Plant (21)	Franklin, Lawrence	Ts-1942	D-0287	prep plant — jigs, cyclones, centrifuges, crushers, screens, picking tables
		Slurry Wash Plant (32)	Franklin, Lawrence	Ts-HC	D-0981	prep plant — cyclones
	Miller Mining, Inc. P.O. Box 525 Sugarcreek, OH 44681 330-852-4511 Olen Miller, pres.	Copperhead Tipple	Sugar Creek, Wayne	Ts-MM	D-0652	tipple
		Barrs Mills Tipple	Sugar Creek	Ts-MM1	D-0876	tipple
Vinton	Benedict, Inc. P.O. Box 315 McArthur, OH 45651 614-596-5226 W. E. Engle, pres.	Benedict, Inc. (22)	Swan	Vn-145	D-0159	prep plant — heavy-media washer, cyclone, crusher, conveyors
	Sands Hill Coal Co., Inc. 1203 N. Pennsylvania Ave. P.O. Box 407 Wellston, OH 45692 614-384-4211 Alan C. Arthur, pres.	Sands Hill Tipple/ Preparation Plant (24)	Clinton	Vn-641	D-0309, D-0169	tipple, prep plant — heavy-media washers, flotation, cyclones, centrifuge, crushers, screens, dryer, picking tables, magnets
	Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 614-682-7787 Phil A. Bowman, v. pres.	Dundas Tipple	Clinton	Vn-178	D-0185	tipple
Wayne	Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	Holmes Limestone Preparation Plant (27)	Franklin	Hs-79	D-0283	prep plant — jig, crushers, dryers, screens, conveyors



Constitution Stone Company quarry in Dunham Township, Washington County, about 1885. Michael J. O'Connor, in suit and derby to the right of the portable boiler, patented the ditching machine shown here in 1874. To his left, his son Joseph leans on a grindstone bearing distinctive diagonal markings on its face that clearly show it was quarried by hand and not by machine. Photo courtesy of the Ohio Historical Society.

1995 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY

NOTE: This directory lists only the coal-producing operations. It does not list tipples, loading docks, preparation plants, or other active, nonproducing operations that would contribute to employment and wage statistics presented in tables 10-16. For those mines that have not been assigned a state mine number, a letter designation is used (example: Bt-C). There is no correlation between the "Seam Number" column and the "Production Tonnage" column. The Seam Number column represents the seams mined at the operation. No production tonnage is listed by seam. Days in production were estimated for those companies not providing this information. To convert short tons to metric tons, multiply the given tonnage by 0.907185.

SEAM IDENTIFICATION OF PRINCIPAL OHIO COALS

1 Sharon	4A Clarion	7 Upper Freeport	11 Waynesburg
2 Quakertown	5 Lower Kittanning	7A Mahoning	12 Washington
3 Lower Mercer	5A Strasburg	8 Pittsburgh	H Harlem
3A Upper Mercer	6 Middle Kittanning	8A Pomeroy-Redstone	W Winters
4 Brookville	6A Lower Freeport	9 Meigs Creek	

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 1995	Disposition		Employment		State mine number
			Number	Thickness (inches)		Method	Tonnage		Method	Tonnage	Underground	Production surface	
BELMONT COUNTY — Total production = 4,968,214 tons Cravat Coal Co.	Rock Hill Pit	Flushing	8	65	surface	strip	104,404	111	water	4,284	5	3	Bt-CCC
			9	42	surface	auger	23,219		truck	102,818			
	Pogue Run Susie Mine AT&T	Richland Wheeling Kirkwood, Union	8	42	surface	strip	5,590	20	truck	5,590	1	2	Bt-927
			8	52	surface	strip	23,291	118	truck	23,291	4	25	Bt-1179 Bt-AT ¹
Fairpoint Coal Co. K.C.I. Marietta Coal Co.	Ohio Fireworks	Pease, Pultney	9	36	surface	Total	83,948	261	water	79,826			Bt-1150
			11	29	surface	strip	54,687						
	Vannest-Moore et al. Oliver-Clark et al.	Richland	11	38	surface	strip	25,139	28	water	14,840			Bt-771 Bt-1129
			11		surface	strip	79,826		water	39,798			
Ohio Valley Coal Co.	North American-Thornton	Richland	11	36	surface	strip	14,840	24	water	10,253			Bt-1162
			9		surface	strip	15,506						
	Dyrdak-Poe et al.	Richland	11	38	surface	auger	24,292	106	water	89,887			Bt-M2
			9		surface	auger	39,798						
Bethesda	Denham-Albaugh et al.	Smith	11	44	surface	strip	7,281	42	water	25,093			Bt-1164
			11		surface	auger	2,972						
	Consol	Union	8	51	surface	strip	10,253	79	water	67,025			Bt-1109
			8		surface	auger	40,414						
R & F Coal Co.	Powhatan #6	Smith, Washington	8	62	slope	strip	89,887	284	water	3,500,868	176	185	Bt-68
			8		slope	auger	14,363		rail	436,246			
	Bethesda	Goshen, Wayne	9	35	surface	longwall	10,730	115	truck	3,937,114	7		Bt-1168
			11	25	surface	cont. miner	25,093		Total	36,126			

Egypt Valley West	Kirkwood, Warren	9	33	surface	strip auger Total	192,630 13,382 206,012	250	truck	206,012	15	5	Bt-RF2
Vcelka	Union, Wheeling	9	33	surface	strip auger Total	16,962 4,559 21,521	84	truck	21,521	2	3	Bt-948
Dudek	Wheeling	9	44	surface	strip auger Total	23,070 6,718 29,788	166	truck	29,788	5	4	Bt-1188
Egypt Valley	Kirkwood, Warren	9	36	surface	strip auger Total	133,893 9,620 143,513	249	truck	143,513	10	2	Bt-VM
Frank Widmor Coal Co., Inc.	Pultney	9	46	surface	strip auger Total	10,914 7,148 18,062	100	truck	18,062	2	3	Bt-1190
CARROLL COUNTY – Total production = 241,189 tons												
Buckeye Industrial Mining Co.	Lafferty	7	30	surface	strip	87,649	137	truck	87,649	6		Ca-1000 ²
Miller Mining, Inc.	R & J Carroll Mine	7A	36	surface	strip	42,795	94	truck	42,795	8		Cl-BIM
Myers Mining	Brown Lee	5,6,6A	24	surface	strip	78,442	254	truck	78,442	10	1	Cl-514
	Harlem Mine #4	H	20	surface	strip	32,303	307	truck	32,303	4	1	Cl-HM1
COLUMBIANA COUNTY – Total production = 727,608 tons												
Buckeye Industrial Mining Co.	Simballa et al.	7	30	surface	strip	52,947	163	truck	52,947	3		Ca-999
	McPherson	7A	36	surface	strip	42,350	112	truck	42,350	6		Ca-BIM
	Mountain Spring Coal Co.	7A	24	drift	cont. miner	341,472	262	truck	341,472	31	6	Ca-349
	Lafferty	7	44	surface	strip	87,649	136	truck	87,649	6		Ca-1000 ³
	Washington	7	30	surface	strip	30,492	75	truck	39,573	4	1	Ca-986
	Center, Wayne	7A	36	surface	strip auger Total	9,081 39,573						
	Madison	6	29	surface	strip auger Total	28,204 10,814 39,018	117	truck	39,018	3		Ca-997
	Center, Wayne	7	29	surface	strip auger Total	2,597 43,088 33,836	10	truck	2,597	<1		Ca-998
	Center, Wayne	7	29	surface	strip auger Total	76,924	199	truck	76,924	7	1	Ca-CM
	Unity	4	27	surface	strip	34,867	168	truck	34,867	6	5	Ca-348
	Center, Wayne	5	12	surface	auger	10,211	117	truck	10,211	1	1	Ca-350
		6	36	surface	auger							
COSHOCKTON COUNTY – Total production = 837,757 tons												
Holmes Limestone Co.	557-Miley	6	30	surface	strip	19,073	118	truck	19,073	4		Cn-H1
Oxford Mining Co., Inc.	Coshockton Landfill	6		surface	strip	24,070	40	truck	24,070	1	<1	Cn-OM
	Hinds	6		surface	strip	25,317	105	truck	25,317	2	1	Cn-OM1
	Broken Aro	5	21	surface	strip	569,764	252	truck	576,948	35	10	Cn-RF3
	Bedford, Jackson	6	43	surface	auger Total	3,674 573,438						
	Lafayette Oxford	6	33	surface	strip	92,174	128	truck	92,174	6	2	Cn-WL
	Noble Bartolec II	5	30	surface	strip	38,486	89	truck	42,776	5	3	Cn-P
		6	32	surface	auger Total	4,290 42,776						

¹Employment reported for Bt-AT is a summary for all Marietta Coal Co. operations.²See also Columbiana County³See also Carroll County.

1995 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY — Continued

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 1995	Disposition		Employment		State mine number
			Number	Thick-ness (inches)		Method	Tonnage		Method	Tonnage	Under-ground	Production	
COSHOCTON COUNTY (continued)	Wolf-Isleta	Oxford	5 6	18 28	surface	strip auger Total	33,191 143 33,334	166	truck	33,334	7	5	Cn-RF
	Isleta Central	Oxford	5 6	18 28	surface	strip auger Total	44,321 3,154 47,475	158	truck	47,475	8	3	Cn-RF1
	Fresno-McCleary	White Eyes	5 6	26 28	surface	strip	16,100	102	truck	16,100	1	2	Cn-841
	GALLIA COUNTY — Total production = 189,149												
Sands Hill Coal Co., Inc.	Coal Valley	Huntington	6 6A	74 11	surface	strip	189,149	301	water truck conveyor Total	16,380 52,697 120,072 189,149	10		Ga-629
GUERNSEY COUNTY — Total production = 261,572 tons													
C L A Coal Co.	Berresford	Londonderry	8	60	surface	strip auger Total	16,354 1,119 17,473	149	truck	17,473	3	1	Gy-C
Holmes Limestone Co. Northshore Coal, Inc. Sugarcreek Clay & Limestone, Inc. Valley Mining, Inc.	Byesville	Jackson	6	30	surface	strip	52,655	273	truck	52,655	3	2	Gy-327
	Buckeyeville	Jackson	7	66	surface	strip	48,845	296	truck	48,845	6	1	Gy-315
	Whitaker	Jackson	7	72	surface	strip	6,912	62	truck	6,912	1	1	Gy-324
	Guernsey Pit	Wheeling	6		surface	strip	35,081	50	truck	35,081	2	2	Gy-317
	Snyder-Bush	Wheeling	6	27	surface	strip auger Total	67,539 33,067 100,606	258	truck	100,606	9	4	Gy-318
HARRISON COUNTY — Total production = 2,165,303 tons													
Consolidation Coal Co.	Mahoning Valley #36	Athens	8 8A 9	48 36 41	surface	strip auger Total	329,890 443,486 773,376	254	truck	773,376	36	12	Hn-700
Cravat Coal Co. Harrison Mining Corp.	Oak Park Pit Nelms Mine — Cadiz Portal	Cadiz Green	8 6A	42 60	surface slope	strip cont. miner	10,376 958,817	20 352	truck rail water truck other Total	10,376 152,773 109,657 691,538 2,726 956,694	<1 92	<1 18	Hn-C Hn-710
Miller Mining, Inc. Myers Mining R & F Coal Co.	Harrison Mine Germano Mine-East Hartley 519	Rumley German Athens	8 8 8 9	50 55 50	surface surface surface	strip strip strip auger Total	13,050 9,137 163,452 44,035 207,487	117 307 250	truck truck truck	13,050 9,137 207,487	1 1 15	5	Hn-762 Hn-757 Hn-RF1
Melvin Schaney Schlappa Coal Co., Inc.	Melvin Schaney Rose Valley Carson Island	Green Green Green	8 8 8 8A	48 56 20 56 20	surface surface surface	strip strip strip auger Total	609 10,481 66,968 2,120 69,088	27 100 205	truck truck truck	609 10,481 69,088	1 2 10	1	Hn-759 Hn-222 Hn-766
Sunnydale Mining	Dodds Snyder	Archer Green	8 8	48 56	surface surface	strip strip	2,046 842	17 10	truck truck	2,046 842	1 1	1	Hn-761 Hn-240

Varkony Mining Co.	Varkony Mining Co.	Green	8	54	surface	strip	50,083	243	truck	50,083	8	1	Hn-217
W.B. Coal Co., Inc.	McGuinness Bros. #4	German	H	18	surface	strip	59,911	50	truck	59,911	8	4	Hn-WB
HOLMES COUNTY – Total production = 152,496 tons													
Holmes Limestone Co.	Charm-Berlin	Berlin, Walnut Creek	5,6	30	surface	strip	83,059	252	truck	83,059	4	1	Hs-HLC1
Miller Mining, Inc.	557-Farm	Clark	6	30	surface	strip	4,294	20	truck	4,294	3		Hs-HL
	241 Plant	Hardy	4		surface	strip	17,992	291	truck	17,992	5	1	Hs-67
	Beachy	Clark	3A, 4		surface	strip	18,755	126	truck	18,755	1		Hs-524
		Wasteland Management	Walnut Creek	5,6		surface	strip	28,396	196	truck	28,396	2	<1
JACKSON COUNTY – Total production = 1,472,566 tons													
Cedar Heights Clay Co.	Katie Walke	Jefferson	5		surface	strip	328	10	truck	328	1		Jkn-CH
R. A. Eberts Co., Inc.	Cedarloo/Jenkins/Greer	Madison	5		surface	strip	2,592	20	truck	2,592	1		Jkn-1007
	Dark Hollow	Jefferson	3		surface	strip	70,536	159	truck	70,536	5	1	Jkn-1070 ⁴
	Carr Ridge Pit	Milton	4A	24	surface	strip	198,055	159	truck	198,055	9	3	Vn-192 ⁵
Sands Hill Coal Co., Inc.	Bethel Ridge	Liberty	4A	24	surface	strip	82,720	200	water truck	7,164	36		Jkn-S1 ⁶
			5	23,046									
			6A	conveyor						52,510			
					Total		82,720						
Sands Hill Coal Co., Inc.	Sands Hill Strip #5	Milton	4A	34	surface	strip	160,659	301	water truck	13,913	Jkn-1069		
			5	23	truck	44,760							
			6	16	conveyor	101,986							
	Milton	Milton	6	51	surface	strip	593	10	water truck	160,659			Jkn-SHCC
									conveyor	51			
									truck	165			
									conveyor	377			
									Total	593			
Stewart Coal Co.	Dark Hollow	Jefferson	4A	48	surface	strip	32,983	159	truck	32,983	7	2	Jkn-1070 ⁴
	Bowman Strip	Bloomfield, Madison	4A	34	surface	strip	838,179	321	truck	838,179	36	36	Jkn-367
			5	24	surface	strip	85,921	42	truck	85,921	16	1	Vn-191 ^{5,7}
JEFFERSON COUNTY – Total production = 725,327 tons													
Anthony Mining Co., Inc.	Sapp	Knox, Saline	8	48	surface	strip	46,554	100	truck	46,554	3		Jfn-830
	NW Piney Fork	Smithfield	8	56	surface	strip	776	10	truck	776	1		Jfn-829
	Omaits	Smithfield, Wayne	8	56	surface	strip	102,240	242	truck	104,294	13	2	Jfn-835
			8A	20	surface	auger	2,054						
					Total		104,294						
F. & M. Coal Co.	F & M Strip	Wayne	8	54	surface	strip	25,440	100	truck	25,440	3		Jfn-784
	Salt Run	Wells	8		surface	strip	44,391	151	truck	75,536	6		Jfn-JC
					auger		31,145						
					Total		75,536						
S. & D. Construction Corp.	Pipo #51	Knox, Saline	8	38	surface	strip	12,900	100	truck	12,900	2	1	Jfn-SD
	Sterling North	Brush Creek	7A	36	drift	cont. miner	319,060	245	truck	319,060	15	15	Jfn-823
	Sterling South	Brush Creek	7A	36	drift	cont. miner	73,037	96	truck	73,037	1	1	Jfn-ST
	Kurtz	Smithfield	8	55	surface	strip	10,818	185	truck	28,426	2	1	Jfn-833
					auger		17,608						
					Total		28,426						

⁴This mine was operated January through June 1995 by Stewart Coal Co. and July through December 1995 by R. A. Eberts Co., Inc.

⁵See also Vinton County.

⁶Employment reported for Jkn-S1 is a summary for all Sands Hill Coal Co., Inc. operations in Jackson County.

⁷This mine was operated January through October 1995 by Addington, Inc. and November through December 1995 by Waterloo Coal Co., Inc.

⁴This mine was operated January through June 1995 by Stewart Coal Co. and July through December 1995 by R. A. Eberts Co., Inc.

⁵See also Vinton County.

⁶Employment reported for Jkn-S1 is a summary for all Sands Hill Coal Co., Inc. operations in Jackson County.

⁷This mine was operated January through October 1995 by Addington, Inc. and November through December 1995 by Waterloo Coal Co., Inc.

1995 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY -- Continued

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 1995	Disposition		Employment			State mine number
			Number	Thick-ness (inches)		Method	Tonnage		Method	Tonnage	Under-ground	Production	Sur-face	
JEFFERSON COUNTY (continued)														
Weirton Construction Co.	#19	Wells	8	54	surface	auger	39,304	79	truck	39,274		1	7	Jfn-687
LAWRENCE COUNTY - Total production = 3,157 tons														
Belville Mining Co., Inc.	Brady Creek Davis Strip	Washington Washington	4A 4A	15 18	surface surface	strip strip	89 3,068	2 63	truck truck	89 3,158		<1 3		Le-B Le-BM
MAHONING COUNTY - Total production = 4,955 tons														
Thompson Bros. Mining Co.	North Lima	Beaver	4	28	surface	strip	4,955	47	truck	4,955		1	1	Mg-65
MEIGS COUNTY - Total production = 3,565,169 tons														
Southern Ohio Coal Co.	Meigs Mine #2	Columbia	4A	57	shaft	longwall cont. miner Total	2,117,112 292,087 2,409,199	201	conveyor	2,370,895	215		96	Ms-294
	Meigs Mine #31	Salem	4A	57	shaft	longwall cont. miner Total	917,745 238,225 1,155,970	110	conveyor	1,142,470	118		136	Ms-293 ^s
MONROE COUNTY - Total production = 2,722,130 tons														
Quarto Mining Co. (subsidiary of Consolidation Coal Co.)	Powhatan #4	Salem	8	60	shaft	longwall cont. miner Total	2,384,175 337,955 2,722,130	183	water	2,722,130	167		116	Me-4
MORGAN COUNTY - Total production = 1,058,122 tons														
Central Ohio Coal Co.	Muskingum Mine	Meigsville, Bristol, Manchester	9	48	surface	strip	1,058,122	220	truck conveyor Total	5 1,062,525 1,062,530	41		229	Ne-41
MUSKINGUM COUNTY - Total production = 173,257 tons														
Oxford Mining Co.	Adamsville	Madison	6 6A		surface	strip auger Total	167,064 6,193 173,257	290	truck	173,257		13	1	Mum-O
NOBLE COUNTY - Total production = 747,364 tons														
B & N Coal, Inc.	Lee Flint Estadt Ullman Shilling Pourhouse	Elk Elk Enoch, Jefferson Elk Jefferson Marion, Stock	9 9 9 9 9 9	36 36 30 36 36 42	surface surface surface surface surface surface	strip strip strip strip strip strip	91,079 23,726 116,940 109,057 5,463 401,099	254 254 254 254 24 254	truck truck truck truck truck truck	91,079 23,726 116,940 109,057 5,463 401,099		9 3 9 10 1 18	1 1 1 1 1 1	Ne-155 Ne-BN1 Ne-BN Ne-151 Ne-1008 ^s Ne-154
PERRY COUNTY - Total production = 613,070 tons														
Avis Coal Co.	Congo	Monroe, Pleasant, Salt Lick	6	120	surface	strip auger Total	150,599 97,145 247,744	295	truck	247,744		24		Py-A
Buckingham Mining & Reclamation, Inc.	Pine Run	Salt Lick	6 6A	58 12	surface	strip auger Total	99,779 51,701 151,480	220	truck	150,694		9	10	Py-BM1
	Shawnee-Imler	Salt Lick	6	72	surface	strip	45,932	47	truck	46,002		3	4	Py-BM2
Crooksville Coal Co., Inc. Oxford Mining Co., Inc.	Crooksville Strip Z-MACK	Bearfield Clayton, Pike	6 5,6	12 30	surface surface	strip strip strip	213 167,701	10 190	truck truck	213 167,701		1 6	1	Py-317 Py-O

STARK COUNTY – Total production = 334,214 tons													
American Landfill, Inc.	American Landfill, Inc.	Sandy	5	36	surface	strip	7,069	50	truck	7,069	17	3	Sk-246
Buckeye Industrial Mining Co.	Cable	Osnaburg	5,6	30	surface	strip	4,220	54	truck	4,220	9	1	Sk-249
Robertsville	Paris	Paris	6	30	surface	strip	136,018	316	truck	136,018	13	5	Sk-BI
Sickafosse-Pickens Pit	Sandy	Bethlehem	4	48	surface	strip	120,934	307	truck	120,934	3		Sk-208
Holmes Limestone Co.	Bolivar Mine	Bethlehem	5		surface	strip	17,677	244	truck	17,677	3		Sk-235
	East Canton	Osnaburg	5,6	30	surface	strip	14,139	84	truck	14,139	5		Sk-HCC
	Charm-Wright	Sugar Creek	5,6	18	surface	strip	33,926	60	truck	33,926	1	2	Sk-HLC
Waste Management of Ohio, Inc.	Countywide RDF	Bethlehem, Pike	5		surface	strip	231	1	truck	231	<1		Sk-217
TUSCARAWAS COUNTY – Total production = 1,419,592 tons													
Belden Brick Co.	Shanesville Pit	Auburn	4		surface	strip	2,279	25	truck	2,279	6		Ts-1939
	Wallick Pit	Franklin, Wayne	4		surface	strip	4,397	25	truck	4,397	1		Ts-1841
	Moomaw Pit	Sugar Creek	3A,4		surface	strip	8,631	25	truck	8,631	1		Ts-1517
	Belden Pit	Sugar Creek	4		surface	strip	1,444	25	truck	1,444	1		Ts-1646
Blue Jay Enterprises, Inc.	Swonger-Waltz Mine	Sandy	4	30	surface	strip	2,813	84	truck	2,813	<1	<1	Ts-520
Daron Coal Co., Inc.	Pleasant Valley Mine	Union	6A	20	surface	strip	39,663	251	truck	51,904	7	2	Ts-1991
			7		surface	auger	12,241						
					Total		51,904						
	Reed Mine	Union	6	42	surface	strip	7,467	84	truck	12,533	1	1	Ts-DC
					surface	auger	5,066						
					Total		12,533						
	Peach Pit	Union	7	20	surface	strip	21,299	174	truck	28,994	3	2	TS-DCC
					surface	auger	7,695						
					Total		28,994						
Holmes Limestone Co.	James Slurry	Dover	6	30	surface	strip	147,040	276	truck	147,040	9		Ts-2038
		Franklin, Lawrence	7		surface	strip	5,335	36	truck	5,335	1		Ts-HC
	Stone Creek	Jefferson, York	7	30	surface	strip	170,108	274	truck	170,108	9		Ts-2023
	Dennison	Rush	7	30	surface	strip	78,477	291	truck	78,477	7		Ts-HLC
	Clark-Reynolds	Salem	6	30	surface	strip	16,874	144	truck	16,874	2		Ts-2045
Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Auburn, York	5	28	surface	strip	123,255	260	truck	146,993	9	1	Ts-2019
			6	36	surface	auger	23,738						
					Total		146,993						
	Kimble Clay & Limestone Co.	Dover	6	38	surface	strip	29,101	122	truck	40,847	1		Ts-2037
			7	30	surface	auger	11,746						
					Total		40,847						
	Kimble Clay & Limestone Co.	Dover	3A	20	surface	strip	71,847	289	truck	73,788	2	1	Ts-1727
			4	20	surface	auger	1,941						
			5	28	surface	auger	73,788						
			6	36	surface	Total							
	Kimble & Clay Limestone Co.	Sugar Creek	3A,4	20	surface	strip	22,463	139	truck	22,463	1		Ts-K4
	Kimble Clay & Limestone Co.	Sugar Creek, Wayne	3A	20	surface	strip	10,211	81	truck	10,211	<1	2	Ts-2022
	Kimble Clay & Limestone Co.	Washington	5	28	surface	strip	11,726	31	truck	14,799	<1	<1	Ts-2031
			6		surface	auger	3,073						
					Total		14,799						
L & M Mineral Co.	Evans-Cox	Mill, Rush	7		surface	strip	9,084	25	truck	9,084	3	1	Ts-1884
	Luikert	Mill, Warwick	5,6		surface	strip	11,930	25	truck	11,930	1		Ts-1914
Red Malcuit, Inc.	RMI #2	Franklin, Wayne	3A	24	surface	strip	18,545	218	truck	18,545	7		Ts-2007
			5	36	surface	strip							

See also Winton County.
See also Washington County.

¹See also Vinton County.

²See also Washington County.

1995 OHIO DIRECTORY OF PRODUCING COAL-MINE OPERATORS, BY COUNTY - Continued

Name of company	Name of mine	Township	Seam		Type of mine	Production		Days in production in 1995	Disposition		Employment		State mine number
			Number	Thick-ness (inches)		Method	Tonnage		Method	Tonnage	Production Under-ground	Non-produc-tion Sur-face	
TUSCARAWAS COUNTY (continued)													
Miller Mining, Inc.	General Clay-Scarr et al.	Auburn, Bucks	5,6		surface	strip	63,034	254	rail truck	43,549	13		Ts-GC
										Total			
R & F Coal Co.	Putt-Turner et al. Snyder Wilmar Farms-Marino Tunnel Hill Shrock-Stony Point Dyer-Everhart	Auburn, Bucks Bucks Dover Sandy Sugar Creek Salem	5,6 3A,4 6 3A,4 6	42 27	surface	strip	181,397	254	truck	123,065	13		Ts-MM3
						strip	11,995	56	truck	11,995	1		Cn-TS
						strip	56,661	232	truck	56,661	6		Ts-2039
						strip	64,674	116	truck	64,674	3		Ts-2040 ⁹
						strip	8,188	128	truck	8,188	1	1	Ts-MM2
Sugarcreek Clay & Limestone, Inc. Toronto A & L Coal, Inc.	Ladrach-Lang Tunnel Hill	Bucks Sandy	6 6	42	surface	strip	62,911	106	truck	63,809	7	2	Ts-RF
						auger	898						
						Total	63,809						
Valley Mining, Inc.	Crim	Mill	7	30	surface	strip	19,298	40	truck	19,298	2		Ts-2042
						auger	18,398	50	truck	23,925	1	1	Ts-2040 ⁹
J.E. Ziegler Dozer Service Zoar Mining Co.	Eberhart Zoar Mining Co.	Lawrence Sandy	6 4	36	surface	strip	5,527	232	truck	44,351	3	1	Ts-2005
						Total	23,925			653			
VINTON COUNTY – Total production = 3,035,809 tons													
Addington, Inc.	Dundas Job	Clinton	4A 5 6 7	24 24 24	surface	strip	606,471	160	water truck	626,757	65	4	Vn-191 ^{10,11}
						Total				19,811			
Benedict, Inc.	Waldron Pit Allied West	Clinton, Elk Elk	3A 3A 4 5	36 30 36 24	surface	strip	14,169	72	truck	14,169	<1	<1	Vn-183
						strip	176,646	318	truck	176,646	10	4	Vn-184
R. A. Eberts Co., Inc.	Daft Pit Mitchell Hollow Carr Ridge Pit	Elk Swan Clinton	3A 4 5 3	32 30 15 24	surface	strip	52,817	256	truck	52,817	2	1	Vn-177
						strip	91,737	305	truck	91,737	7	3	Vn-172
						strip	198,056	159	truck	198,056	9	3	Vn-192 ¹¹
						strip	5,097	12	truck	5,097	1		Vn-182
						strip	648,926	301	water truck	56,196	27	59	Vn-S
Sands Hill Coal Co., Inc.	Sands Hill Strip #3	Clinton	W 4A 5 6	14 33 24 20	surface	strip	917,744	111	conveyor	180,765			
Southern Ohio Coal Co.	Meigs Mine #31	Wilkesville	4A	57	drift	longwall	238,226			411,965			
						cont. miner	1,155,970			648,926	118	136	Ms-293 ¹²
Waterloo Coal Co., Inc.	Dundas	Clinton	3 4A 5 6 7	24 24 24 24	surface	Total	85,920	42	truck	85,920	16	2	Vn-191 ^{10,11}
						strip							

⁹⁷This mine was operated January through June 1995 by Toronto A & L Coal, Inc. and July through December 1995 by Miller Mining, Inc.
¹⁰⁷This mine was operated January through October 1995 by Addington, Inc. and November through December 1995 by Waterloo Coal Co., Inc.
¹¹See also Jackson County.
¹²See also Meigs County.
¹³See also Noble County.

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS

*For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Ts-A).
If there are no sales or production figures given for an operation, that operation reported no sales or production in 1995.
To convert short tons to metric tons, multiply the tonnage given by 0.907185.*

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
A-1 All Ohio Sand & Gravel Co. 2665 N. Turkeyfoot Rd. Akron, OH 44319 330-644-0700 Sam Serves, pres.	A-1 All Ohio Sand & Gravel Co. (583)	Summit	sand & gravel	191,697	191,697	St-50	IM-722
ATS Enterprises P.O. Box 128 Haverhill, OH 45636 614-532-4058 Lowell Gullett, plant mgr.	Haverhill (306)	Scioto	sand & gravel	358,503	365,375	So-79	IM-221
Acme Sand & Gravel 128 First St. W Strasburg, OH 44680 330-756-3177 Susan K. Malcuit, owner	Acme Sand & Gravel (612)	Tuscarawas	sand & gravel			Ts-A	IM-1218
Agg Rok Materials Div. of Wapak Sand & Gravel Co. 711 Frank Rd. Columbus, OH 43223 614-444-4422 Ralph E. Heffner, pres.	Agg Rok Materials (94)	Franklin	sand & gravel	444,920	444,920	Fn-36	IM-302
Akzo Nobel Salt, Inc. P.O. Box 6920 Cleveland, OH 44101 216-651-7200 Harry Burns, pres.	Cleveland Mine (1)	Cuyahoga	salt	1,978,043	2,375,000	Cya-30	
Akzo Nobel Salt, Inc. 2065 Manchester Rd. Akron, OH 44309-0149 216-745-0031 Harry Burns, pres.	Akzo Nobel Salt, Inc. (4)	Summit	salt	210,764	213,695	St-9127	
Alan Stone Co., Inc. P.O. Box 127 Chesterhill, OH 43728 614-554-6191 Claudia Staley, pres.	Marietta Quarry (51) Alan Stone Co., Inc. (43)	Belmont Washington	sandstone sandstone			Bt-1193 Wn-45	IM-1117 IM-125
William Albert, Inc. 1300 Cassingham Hollow Rd. Coshocton, OH 43812 614-622-3045 William Albert, pres.	William Albert, Inc. (438) (88)	Coshocton	sand & gravel clay	17,034	19,034	Cn-828	IM-1026
Allgeier & Son, Inc. 6386 Bridgetown Rd. Cincinnati, OH 45248 513-574-3735 Earl W. Allgeier, pres.	State Route 128 (467) Miami River Rd. (521)	Hamilton Hamilton	sand & gravel sand & gravel	95,000	95,000	Hmn-AS Hmn-AS1	IM-1106 IM-797
Allied Corp., Inc. 1749 Highland Dr. Twinsburg, OH 44087 216-425-7861 Charles Rauh, pres.	Allied Corp., Inc. (435)	Stark	sand & gravel			Sk-173	IM-879
American Aggregates Corp. P.O. Box 147515 Dayton, OH 45413-7515 513-454-1128 Geoff C. Harris, pres.	Hamilton #710 (29) Fairfield #711 (30) Urbana #215 (48) Springfield #423 (16) Fairborn #413 (52) Fort Jefferson #424 (19) Delaware Stone #227 (22) Shawnee #225 (20) Blue Rock Limestone #427 (27) Sugar Creek Plant #223 (29) Marble Cliff #224 (30) Columbus #210 (95) Lockbourne #213 (96) Columbus Limestone #221 (31) Cedarville Limestone #425 (32) Fairborn Limestone #431 (142) Haines Rd. #419 (405) Xenia #414 (110)	Butler Butler Champaign Clark Clark Darke Delaware Delaware Fayette Fayette Franklin Franklin Franklin Franklin Greene Greene Greene Greene	sand & gravel sand & gravel sand & gravel limestone sand & gravel limestone limestone limestone limestone limestone sand & gravel sand & gravel limestone limestone limestone sand & gravel sand & gravel	804,295 1,444,421 743,158 665,023 371,535 594,956 1,103,647 299,035 1,579,759 935,770 743,158 3,085,738 271,833 302,096 167,389 507,568	760,780 1,317,823 0 501,379 299,225 433,146 985,996 326,783 1,297,759 846,534 0 3,044,483 353,282 399,086 63,783 499,272	Br-5 Br-35 Cpn-1 Ck-1 Ck-13 Dke-1 Del-3 Del-4 Fe-2 Fe-3 Fn-2 Fn-6 Fn-23 Fn-53 Ge-17 Ge-25 Ge-32 Ge-33	IM-153 IM-200 IM-371 IM-373 IM-366 IM-362 IM-327 IM-262 IM-169 IM-329 IM-261 IM-185 IM-183 IM-185 IM-435 IM-437 IM-400 IM-379

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
American Aggregates Corp. (con't)	Spring Valley Gravel #434 (404) Beavercreek Limestone #426 (155) Harrison #712 (118) Campbell Rd. #715 (407) Kilby Rd. #713 (119) East Liberty #226 (49) Troy Gravel #433 (219) Piqua Gravel #430 (216) Tipp City Gravel #435 (220) Phillipsburg Limestone #421 (70) Dayton Limestone #420 (71) Huber Heights Limestone #432 (143) Rip Rap Road #416 (224) American Aggregates Corp. (571) Franklin #714 (349)	Greene Greene Hamilton Hamilton Hamilton Logan Miami Miami Miami Montgomery Montgomery Montgomery Montgomery Preble Warren	sand & gravel limestone sand & gravel sand & gravel sand & gravel limestone sand & gravel sand & gravel sand & gravel limestone limestone limestone sand & gravel sand & gravel sand & gravel	553,610 1,099,268 411,187 356,558 625,522 8,036 174,537 670,900	595,258 987,546 362,003 269,231 644,889 0 13,721 641,648	Ge-42 Ge-45 Hmn-37 Hmn-69 Hmn-AAC Lgn-1 Mi-3 Mi-6 Mi-8 My-1 My-23 My-32 My-66 Pre-AAC Wan-38	IM-954 IM-364 IM-170 IM-969 IM-716 IM-574 IM-462, IM-658 IM-356 IM-355 IM-374 IM-368 IM-1012 IM-677 IM-779 IM-615
American Landfill, Inc. 1 American Way Warren, OH 44484 330-856-8800 Stephen Kilper, pres.	American Landfill, Inc. (123) (123)	Stark	clay shale	3,981 1,550	3,981 1,550	Sk-246	IM-1114
American Sand & Gravel 8188 Wales Rd. NW North Canton, OH 44720 330-494-6455 Christopher Scala, pres.	American Sand & Gravel (387) American Sand & Gravel (386) Crystal Springs (455)	Portage Stark Stark	sand & gravel sand & gravel sand & gravel	400 985,650	400 985,650	Pe-ASG Sk-203 Sk-243	IM-212 IM-654 IM-908
Andre Land Forming 14687 Road M Wauseon, OH 43567 419-337-8908 Paul & Nathan Andre, partners	Andre Land Forming (170)	Fulton	clay	24,000	24,000	Ftn-A	IM-1249
Apache Aggregate & Paving Co. 46626 County Rte. 495 Coshocton, OH 43812 614-622-5904 Charlene Ross, pres.	Apache Aggregate & Paving Co. (69) Apache Aggregate & Paving Co. (70)	Coshocton Coshocton	sand & gravel sand & gravel	142,404	162,531	Cn-718 Cn-783	IM-227 IM-717
Ashcraft Sand & Gravel, Inc. 5850 Dry Fork Rd. Cleveland, OH 45002 513-367-5700 Rick Ashcraft, v. pres.	Ashcraft Sand & Gravel, Inc. (120)	Hamilton	sand & gravel	71,755	71,755	Hmn-54	IM-710
Athens County County Courthouse 15 S. Court St. Athens, OH 45701 614-592-4431 Joe Kasler, project admin.	Athens County (180)	Athens	clay	121,677	121,677	As-AC	IM-1272
Athens Hocking Reclamation Center 35380 Hocking Dr. P.O. Box 946 Logan, OH 43138 614-385-6019 Edward F. Kilbarger, pres.	Athens Hocking Reclamation Center (81)	Athens	clay	1,027	1,027	As-594	
Atlas Towing Co. P.O. Box 1632 Parkersburg, WV 26101 304-428-0341 Christopher V. Criss, pres.	Belpre Bank Run (432)	Washington	sand & gravel	19,173	19,173	Wn-54	IM-383
Aurora Sand & Gravel, Inc. 60 Treat Rd. Aurora, OH 44202 216-641-0300 Gary Helf, pres.	Aurora Sand & Gravel, Inc. (260)	Portage	sand & gravel	230,000	230,000	Pe-84	IM-868
Ayers Limestone Quarry, Inc. 2000 Colerain Pike P.O. Box 67 Martins Ferry, OH 43935 614-633-2958 Thomas E. Ayers, pres.	Ayers Limestone Quarry, Inc. (12)	Belmont	limestone	115,318	115,318	Bt-716	IM-1

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
B & L Excavating 203 W. Airport Highway Swanton, OH 43558 419-825-1218 Boyd Rhodes, owner	B & L Excavating (638)	Fulton	sand & gravel			Ftn-BL	IM-1260
B-M Machine Co. 12264 Princeton Rd. Huntsburg, OH 44046 216-635-9151 Robert Zalar, owner	B-M Machine Co. (442)	Geauga	sand & gravel			Gea-39	IM-974
B & N Coal, Inc. P.O. Box 100 Dexter City, OH 45727 614-783-3575 Carl Baker, Jr., pres.	B & N Coal, Inc. (179)	Noble	limestone			Ne-B	IM-897
Baker Sand, Inc. 7800 White Rd. Burbank, OH 44214 330-948-1448 John E. Baker, pres.	Baker Sand, Inc. (203)	Medina	sand & gravel	715,113	715,113	Ma-20	IM-448
Barrett Paving Materials, Inc. Midwest Division — South 7374 Main St. Cincinnati, OH 45244 513-271-6200 Xavier Lepercq, pres.	Perintown (59)	Clermont	sand & gravel	51,200	51,200	Ct-9	IM-526
Barrett Paving Materials, Inc. Midwest Division — North P.O. Box 14591 Piqua, OH 45356 513-773-1933 Jim Weeks, dist. mgr.	Fairborn #141 Gregory Quarry (66) Barrett Paving Materials, Inc. (177)	Clark Miami Miami	sand & gravel limestone limestone	361,000 455,000	361,000 455,000	Ck-28 Mi-502 Mi-BPM	IM-1100 IM-414 IM-1169
Barrett Paving Materials, Inc. 3835 Centennial Rd. Sylvania, OH 45860 419-841-2816 Michael E. Smith, plant mgr.	Sylvania Quarry (160)	Lucas	limestone	358,000	358,000	Ls-12	IM-953
Beaver Excavating, Inc. P.O. Box 6059 Canton, OH 44706 330-484-6088 Mark Sterling, pres.	Stone Products (607) (162)	Stark	sand & gravel clay	2,500	2,500	Sk-BE	IM-1202
Beck Sand & Gravel, Inc. 2820 Webb Rd. Ravenna, OH 44266 330-626-3863 Robert E. Wenrich, pres.	Beck Sand & Gravel, Inc. (256)	Portage	sand & gravel	331,144	331,144	Pe-50	IM-96
Becky Lane Trucking, Inc. 441 Iowa St. Ashland, KY 41101 606-325-8301 Janet Griffiths, pres.	B & L Sand (167)	Lawrence	sand & gravel	46,856	46,856	Le-430	IM-844
Paul D. Beery Trucking Co. 4770 Cincinnati-Zanesville Rd. NE Lancaster, OH 43130 614-653-5061 Paul D. Beery, pres.	Paul D. Beery Trucking Co. (401)	Fairfield	sand & gravel	10,876	400	Fd-14	IM-933
Belden Brick Co. P.O. Box 20910 Canton, OH 44701 330-852-2424 William H. Belden, Jr., pres.	Moomaw Pit (187) (62) (56) (56)	Tuscarawas	limestone sandstone clay shale	4,802 61,908 58,016	4,802 61,908 58,016	Ts-1517	IM-46
	Belden Pit (57) (57)	Tuscarawas	clay shale	22,208 27,822	22,208 27,822	Ts-1646	IM-44
	Wallick Pit (71) (58) (58)	Tuscarawas	sandstone clay shale	135,654 24,346 27,754	135,654 24,346 27,754	Ts-1841	IM-45
	Shanesville Pit (59) (59)	Tuscarawas	clay shale	151,594	151,594	Ts-1939	IM-47
	Beagle Pit (60)	Tuscarawas	clay	4,504	4,504	Ts-1960	IM-48

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Belden Brick Co. (cont.)	Plotner Pit (181) (147) (147)	Tuscarawas	limestone clay shale			Ts-B	IM-49
	Belden Brick Co. (191) (177) (177)	Tuscarawas	limestone clay shale			Ts-BB	IM-1221
Belville Mining Co., Inc. P.O. Box 834 Ironton, OH 45638 614-643-2331 Robert E. Belville, pres.	Belville Mining Co. #1 (159) (93)	Lawrence	limestone clay	28,052	28,052	Le-B	IM-1188, D-0746
Benco Leasing, Inc. dba Goshen Sand & Gravel 1012 Commercial Ave. SE New Philadelphia, OH 44663 330-339-3339 Ben Cookson, pres.	Goshen Sand & Gravel (389)	Tuscarawas	sand & gravel	62,618	70,918	Ts-1976	IM-941, IM-942
Best Sand Corp. 11830 Ravenna Rd. Chardon, OH 44024 216-946-3441 Charles Fowler, pres.	Best Sand Corp. (17) Schrader Quarry (45)	Geauga Pike	sandstone sandstone	654,758 92,615	840,048 80,000	Gea-3 Pke-31	IM-89 IM-835
Beverly Slag Co. P.O. Box 599 McConnelsville, OH 43756 614-962-5621 Carl L. Price, v. pres.	Devola Pit (364)	Washington	sand & gravel	952	952	Wn-55	IM-669
Big Walnut Sand & Gravel, Inc. 2112 Eakin Rd. Columbus, OH 43223 614-275-2004 James Hughes, pres.	Big Walnut Sand & Gravel, Inc. (97)	Franklin	sand & gravel	110,722	110,722	Fn-14	IM-832
Black Top Contracting, Inc. P.O. Box 98 Belpre, OH 45714 614-423-5455 Terry R. Wyatt, pres.	Black Top #1 (19)	Athens	sand & gravel	15,132	15,132	As-588	IM-630
E. E. Blair Construction Co. P.O. Box 309 Wheelersburg, OH 45694-0309 614-574-6575 Edwin E. Blair, pres.	Blair Pit (303)	Scioto	sand & gravel	207,369	207,369	So-98	IM-474
Blue Jay Enterprises, Inc. P.O. Box 641 Zoar, OH 44697 330-874-2048 Leland D. Ervin, pres.	Swonger-Waltz Mine (85) (85)	Tuscarawas	clay shale			Ts-520	IM-214
Bluffton Stone Co. P.O. Box 26 Bluffton, OH 45817-0026 419-358-6941 Michael Gerkin, pres.	Bluffton Stone Co. (3)	Allen	limestone	343,726	343,073	An-1	IM-485
Blum Mining Co. P.O. Box 232 Carrollton, OH 44615 330-627-2670 Raymond Blum, pres.	Blum Mining Co. (476) (161)	Mahoning	sand & gravel limestone	44,488	44,488	Mg-629	IM-1008
Bolin & Bartley, Inc. 1217 County Rd. 1475 R.D. 1 Ashland, OH 44805 419-289-1507 Hershel D. Bartley, pres.	Simington Rd. (509) Bolin & Bartley Sand & Gravel (409)	Ashland Richland	sand & gravel sand & gravel	100,479	100,479	Ald-16 Rd-20	IM-1120 IM-617
Bowerston Shale Co. 515 Main St. Bowerston, OH 44695 614-269-2921 William U. Milliken, pres.	Bowerston (11) Scott Farm (109)	Harrison Harrison	shale shale	29,606	26,616	Hn-152 Hn-B	IM-42 IM-1020

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Bowerston Shale Co. 1329 Seven Hills Rd. NE Newark, OH 43055 614-763-3921 William U. Milliken, pres.	Hanover (31) Fazeysburg (38) (38)	Licking Muskingum	shale clay shale	18,867 8,257	16,620 7,123	Lg-501 Mum-776	IM-257 IM-256
Gaston Bowling, Inc. P.O. Box 330 Oxford, OH 45056 513-523-8805 Gaston Bowling, pres.	Indian Creek Sand & Gravel Co. (37)	Butler	sand & gravel	5,975	5,975	Br-40	IM-493
D. H. Bowman & Sons, Inc. 1201 Mill St. Bellville, OH 44813-1227 419-886-2711 Richard D. Bowman, pres.	D. H. Bowman & Sons, Inc. (287)	Richland	sand & gravel	28,730	34,530	Rd-4	IM-279
Boyas Excavating, Inc. 10055 Sweet Valley Dr. Cleveland, OH 44125-4247 216-447-0175 Pete Boyas, pres.	Boyas' Valley View Quarry (595) (13)	Cuyahoga	sand & gravel sandstone			Cya-42	IM-686
Boyd Gravel Co. 24270 Twp. Rd. 1202 Coshocton, OH 43812 614-622-4406 Robert Mill, pres.	Boyd Gravel Co. (71)	Coshocton	sand & gravel			Cn-694	IM-293
Boyd Gravel Co. 1985 Gene Cox Memorial Dr. Dresden, OH 43821 614-754-3311 Jeff Jack, supt.	Dresden Plant #1 (244) Prospect (243) Gilbert Cox (449)	Muskingum Muskingum Muskingum	sand & gravel sand & gravel sand & gravel	287,701	324,620	Mum-799 Mum-863 Mum-899	IM-317 IM-264
Briar Hill Stone Co. P.O. Box 457 Glenmont, OH 44628 330-377-5100 F. L. Waller, pres.	Quarry #26 (4)	Coshocton	sandstone	2,424	2,424	Cn-13	IM-397
	Quarry #3 (5)	Coshocton	sandstone	7,469	7,469	Cn-659	IM-232
	Quarry #32 (6)	Coshocton	sandstone	926	926	Cn-686	IM-504
	Quarry #24 (7)	Coshocton	sandstone	307	307	Cn-692	IM-294
	Quarry #18 (8)	Coshocton	sandstone			Cn-695	IM-402
	Quarry #54 (46)	Coshocton	sandstone	2,230	2,230	Cn-809	IM-909
	Quarry #55 (44)	Coshocton	sandstone	5,926	5,926	Cn-815	IM-939
	Quarry #31 (19)	Holmes	sandstone			Hs-49	IM-418
	Quarry #6 (23)	Knox	sandstone	1,870	1,870	Kx-12	IM-445
Briggs Sand & Gravel, Inc. Rte. 4 Box 303 County Rd. 10 Marietta, OH 45750 614-373-3363 James F. Briggs, pres.	Briggs Sand & Gravel, Inc. (365)	Washington	sand & gravel	19,547	19,547	Wn-508	IM-57
Brimfield Sand & Gravel 3613 Mogadore Rd. Kent, OH 44240-7431 330-673-7995 Albert Roth, pres.	Brimfield Sand & Gravel (605)	Portage	sand & gravel			Pe-102	IM-1184
Broadway Sand & Gravel, Inc. 2000 Sandridge Dr. Dayton, OH 45439 513-299-1166 George D. Jones, v. pres.	Broadway Sand & Gravel, Inc. (225)	Montgomery	sand & gravel	18,688	18,688	My-65	IM-594
Broshear Contractors, Inc. 2520 Millville-Ross Rd. Hamilton, OH 45013 513-863-3388 Gerald Broshear, pres.	Ross Township Gravel (31)	Butler	sand & gravel	10,945	10,945	Br-48	IM-562
Karl Bruggmann Sand & Gravel, Inc. 8420 Weaver Rd. Ravenna, OH 44266 330-626-3914 Donald H. Bruggmann, owner	Karl Bruggman Sand & Gravel, Inc. (257)	Portage	sand & gravel	61,351	61,351	Pe-15	IM-104
Oscar Bruggmann Sand & Gravel, Inc. 3828 Dudley Rd. Mantua, OH 44255 330-274-8224 Roy Bruggmann, pres.	Oscar Bruggmann Sand & Gravel, Inc. (258)	Portage	sand & gravel	548,982	568,500	Pe-9	IM-119
	(70) Oscar Bruggmann Sand & Gravel, Inc. (628)	Portage	sandstone sand & gravel	56,787 1,150	60,000 1,150	Pe-OB	IM-1241

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Brush Wellman, Inc. 14710 W. Portage River South Rd. Elmore, OH 43416-9502 419-862-2745 John Cayton, engineer	Brush Wellman Clay Mine (136)	Ottawa	clay	30,000	30,000	Oa-19	IM-1153
BRYCO P.O. Box 870 Coshocton, OH 43812 614-623-0660 Paul Bryant, owner	Conesville (621) (168)	Coshocton	sand & gravel clay	56,425	56,425	Cn-B	IM-1238
Buckeye Excavating 13354 Arnold Rd. Dalton, OH 44618 330-857-7663 Steven R. Steiner, partner	Steiner Pit (535)	Wayne	sand & gravel	19,915	19,915	We-23	IM-1136
Buckeye Industrial Mining Co. P.O. Box 389 Lisbon, OH 44460 330-337-9511 John C. Grisham, pres.	Myers (167) West Point (178) Buckeye Industrial Mining Co. (192) (186)	Carroll Columbiana Columbiana	clay shale limestone clay	42,000	42,000	Cl-238 Ca-987 Ca-BIM	D-0703 D-0928 IM-1271
	Cable Job (146) (146)	Stark	clay shale			Sk-247	D-0929
	Robertsville (189)	Stark	shale	12,000	12,000	Sk-BI	D-1043
James Bunnell, Inc. 5730 State Rte. 128 Cleves, OH 45002 513-353-1100 Jack Ernst, pres.	James Bunnell, Inc. (123) James Bunnell, Inc. (124) James Bunnell, Inc. (195)	Hamilton Hamilton Hamilton	sand & gravel sand & gravel sand & gravel	700 582,692 270	700 582,692 270	Hmn-50 Hmn-59 Hmn-B	IM-205 IM-815 IM-1139
Burlington Sand & Gravel Co. P.O. Box 399 Chesapeake, OH 45619 614-894-5978 Vernon E. Collier, owner	Willow Creek (170)	Lawrence	sand & gravel			Le-426	IM-856
Burrgett Industries, Inc. P.O. Box 651 Newcomerstown, OH 43832 614-498-8754 Thomas J. Miller, pres.	Burrgett Pit (532)	Tuscarawas	sand & gravel			Ts-2029	IM-1129
C.I.R., Inc. 2856 N. County Line Rd. Geneva, OH 44041-9604 216-352-2256 Louis W. Pirc, pres.	Harmon (625)	Lake	sand & gravel	21,542	21,542	Lke-CIR	IM-1243
C & S Contractors, Inc. P.O. Box 42459 Cincinnati, OH 45242 513-530-9844 Raymond A. Conn, pres.	C & S Contractors, Inc. (356)	Warren	sand & gravel			Wan-47	IM-846
Canton Aggregate Div. of Central Allied Enterprises, Inc. P.O. Box 80449 Canton, OH 44708-0449 330-477-6751 John A. Woodhall, Jr., pres.	Canton Aggregate (318) Canton Aggregate (319) Canton Aggregate (631)	Stark Stark Stark	sand & gravel sand & gravel sand & gravel	626,000 43,000	626,000 43,000	Sk-681 Sk-689 Sk-CA	IM-164 IM-173 IM-1234
Joe E. Carter 21399 State Line Rd. Lawrenceburg, IN 47025 812-537-3970 Joe E. Carter, owner	Lost Bridge (642)	Hamilton	sand & gravel			Hmn-JC	IM-1267
Carter & Carter, Inc. P.O. Box 266 Miamisburg, OH 45343-0266 513-239-0554 Charles V. Carter, pres.	Carter & Carter, Inc. (561) (157)	Montgomery	sand & gravel clay	771	771	My-CW	IM-878
Cashen, Inc. 1225 Dock Rd. Madison, OH 44057 216-428-1148 Andy Cashen, owner	Cashen Pit (597)	Lake	sand & gravel	1,450	1,450	Lke-C	IM-1215

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Cedar Heights Clay Co. Division of Resco Products, Inc. P.O. Box 295 Oak Hill, OH 45656-0295 614-682-7794 William T. Tredennick, pres.	Shumate/Alban (21) Cedarloo/Jenkins/Greer (22) Katie Walke (91) Sadler (145) (145)	Jackson Jackson Jackson Jackson	clay clay clay clay shale	16,489 36,250 7,309	16,489 36,250 7,309	Jkn-1001 Jkn-1007 Jkn-CH Jkn-CH1	IM-19 IM-24 IM-1060 IM-1182
Celotex Corp. P.O. Box 280 Port Clinton, OH 43452 419-734-3153 Larry Schultz, plant mgr.	American #2 (1)	Ottawa	gypsum	248,719	248,719	Oa-2	IM-344
Center West Enterprise, Inc. 4901 W. Market St. Leavittsburg, OH 44430 216-898-5394 Andrew B. Polivka, pres.	Center West Enterprise, Inc. (611)	Trumbull	sand & gravel			TL-C	IM-1190
Central Ohio Coal Co. P.O. Box 98 Cumberland, OH 43732-0098 614-962-2013 Gary Dimmerling, gen. mgr.	Horse Run Stone Quarry (73) Windy Hill (166)	Morgan Noble	limestone limestone	73,038	73,038	Mon-600 Ne-C	D-1034 D-0820
Chambers Development of Ohio, Inc. 310 Leger Rd. N. Huntingdon, PA 15642 412-861-8730 Alexander Rangos, v. pres.	Harrison County Landfill (D-1105)	Harrison	clay shale			Hn-CD	D-1105
Jeff Chaney P.O. Box 466 Killbuck, OH 44637 330-276-2444 Jeff Chaney, owner	Spring Run Gravel (416) (111)	Holmes	sand & gravel shale	14,752	14,752	Hs-96	IM-997
Charlestown Sand & Gravel, Inc. 7845 State Rte. 5 Ravenna, OH 44266 216-296-9233 Yale Stuble, pres.	Charlestown Sand & Gravel, Inc. (259)	Portage	sand & gravel	34,733	34,733	Pe-17	IM-123
Chattin Concrete 874 Higby Rd. Chillicothe, OH 45601-8225 614-947-5227 Jeffery Chattin, owner	Chattin Concrete (253)	Pike	sand & gravel			Pke-23	IM-242
Chesterhill Stone Co. 773 East State Rte. 60 NE P.O. Box 599 McConnelsville, OH 43756 614-962-5621 Carl Price, v. pres.	Buck Farm (240) Graham Farm (563) East Fultonham (75)	Morgan Morgan Muskingum	sand & gravel sand & gravel limestone	161,537 62,295 799,326	155,931 51,489 857,066	Mon-588 Mon-CSC Mum-106	IM-35 IM-1178 IM-297
Chesterville Sand & Gravel Co., Inc. State Rte. 95 E P.O. Box 51 Chesterville, OH 43317 419-768-3369 Carrol D. Gleason, pres.	Chesterville Sand & Gravel Co., Inc. (242)	Morrow	sand & gravel	149,273	149,273	Mw-10	IM-258
Chillicothe Sand & Gravel Co. 1177 Hopetown Rd. Chillicothe, OH 45601 614-775-3751 Don E. Mill, pres.	Chillicothe Sand & Gravel Co. (490)	Ross	sand & gravel	192,782	192,782	Rs-27	IM-1098
Christman Quarry 47278 Swazey Rd. Lewisville, OH 43754 614-838-2475 Gerald L. Christman, owner	Christman Quarry (163)	Monroe	limestone	77,870	77,870	Me-C	IM-1088
Clark Clay Co. 6918 Township Rd. 310 Millersburg, OH 44654 330-674-5150 Dwight S. Clark, owner	Clark Clay Co. (17)	Holmes	clay	3,669	4,000	Hs-56	

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Clemson Excavating, Inc. 9954 Old State Rd. Chardon, OH 44024 216-286-3153 Bill Clemson, pres.	Clemson Excavating, Inc. (635)	Ashtabula	sand & gravel	9,761	9,761	Asa-C	IM-1278
Cleveland Quarries P.O. Box 261 Amherst, OH 44001-0261 216-986-4501 David Tyrrell, pres.	Birmingham Quarry (14) Amherst Quarries (27)	Erie Lorain	sandstone sandstone	1,113 1,111	1,113 1,111	Ee-21 Ln-3	IM-416 IM-415
M. J. Coates Construction Co. P.O. Box 231 Centerville, OH 45459 513-862-4655 Martin J. Coates, owner	M. J. Coates Construction Co. (548)	Greene	sand & gravel	194,664	194,664	Ge-47	IM-751
Cochran Transportation Services, Inc. P.O. Box 578 Athens, OH 45701 614-593-3906 Charles W. Cochran, pres.	Cochran Transportation Services, Inc. (458) (87)	Athens	sand & gravel clay	42,729 168	42,729 168	As-595	IM-1083
Boone Coleman Construction, Inc. Route 5, Box 292 Portsmouth, OH 45662 614-858-6661 Boone Coleman, pres.	Coleman Pit (576) Boone Coleman Construction, Inc. (73)	Scioto Scioto	sand & gravel sandstone	250	250	So-B So-BC	IM-705 IM-1252
Bill D. Colwell 5019 College Corner Pike P.O. Box 300 Oxford, OH 45056 513-523-3128 Bill D. Colwell, owner	Sipps Lane (28)	Butler	sand & gravel	26,587	26,587	Br-36	IM-649
Complete Resources Co. 1275 E. Fifth Ave. Columbus, OH 43219 614-253-6415 Toby McGee, partner	Darby Materials (648)	Pickaway	sand & gravel	50,534	121,582	Fn-C	IM-1265
Con-Ag, Inc. 16672 County Rd. 66A N St. Marys, OH 45885 419-394-8870 Robert E. Hirschfeld, pres.	Con-Ag, Inc. (10)	Auglaize	limestone	248,603	270,453	Ae-31	IM-744
Copley Shores Development 530 Delaware Ave. Akron, OH 44303 330-836-1576 Janet Zazo, owner	Copley Shores Development (649)	Summit	sand & gravel			St-C	IM-1251
Craigton Shale Co. 2880 E. Easton Rd. Creston, OH 44217 330-435-6535 Leonard D. Schemrich, owner	Craigton Shale Co. (165)	Wayne	shale	7,235	7,235	We-25	IM-1209
Cremeans Concrete & Supply Georges Creek Rd. P.O. Box 475 Gallipolis, OH 45631 614-446-1142 Frank A. Cremeans, pres.	Cremeans Concrete & Supply (440)	Gallia	sand & gravel	2,278	2,278	Ga-626	IM-1046
Crosby Gravel 9570 State Rte. 128 Harrison, OH 45030 513-321-7774 Joseph Prus, pres.	Crosby Gravel (121)	Hamilton	sand & gravel			Hmn-44	IM-120
R. A. Cruise Sand & Gravel, Inc. 7639 State Rte. 14 Ravenna, OH 44266 330-296-4087 Larry R. Cruise, pres.	R. A. Cruise Sand & Gravel, Inc. (261)	Portage	sand & gravel	56,334	56,334	Pe-45	IM-139

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Cunningham Asphalt Paving, Inc. P.O. Box 370 Wheelersburg, OH 45694 614-574-6184 Karl Cunningham, pres.	Cunningham Pit (304)	Scioto	sand & gravel			So-83	IM-211
Custar Stone Co. P.O. Box 629 Napoleon, OH 43545 419-533-8831 Brent Gerkin, pres.	Custar (129)	Wood	limestone	326,597	349,905	Wd-5	IM-473
D. & D. Mining Co. 3379 E. Garfield Rd. New Springfield, OH 44443 330-549-3127 Donald Thompson, pres.	D. & D. Mining Co. (57) (164)	Columbiana	sandstone shale			Ca-888	IM-1181
	D. & D. Strip (130)	Columbiana	clay	71,719	71,719	Ca-348	Im-976
D & K Materials, Inc. 3141 Congress Lake Rd. Mogadore, OH 44260 330-678-2411 Kimberly Ebie, pres.	D & K Materials, Inc. (568)	Portage	sand & gravel	23,238	23,238	Pe-101	IM-1154
D & W Sand & Gravel 10677 Wren Rd. Mechanicsburg, OH 43044 513-834-2548 Dale Potter, owner	D & W Sand & Gravel (49)	Champaign	sand & gravel	15,508	15,508	Cpn-21	IM-616
Darby Gravel Co. 9780 State Route 62 Orient, OH 43146 614-877-4184 Louis Johnson, pres.	Darby Gravel Co. (564)	Pickaway	sand & gravel	4,210	4,210	Pky-D	IM-1150
Davis Sand & Gravel 311 Mt. Zion Rd. Lancaster, OH 43130 614-687-1876 Richard P. Davis, owner	Davis Sand & Gravel (91)	Fairfield	sand & gravel			Fd-12	IM-451
Davon, Inc. 4281 Roush Rd. Hillsboro, OH 45133 513-364-2311 John B. Patton, pres.	Plum Run (1) Davon, Inc. (184)	Adams	limestone	1,961,484	1,961,484	Ads-1	IM-237
	Highland Stone (41)	Adams, Brown Highland	limestone	882,944	882,944	Ads-BN Hd-2	IM-1195 IM-230
DeMilta Sand & Gravel, Inc. 921 Erie Rd. Eastlake, OH 44094 216-942-2015 Nick DeMilta, pres.	DeMilta Sand & Gravel, Inc. (598)	Lake	sand & gravel			Lke-D	IM-1187
Demmy Construction, Inc. 4324 Fairfield Pike Springfield, OH 45502 513-325-9429 Daniel E. Demmy, pres.	Kieffer Pit (385)	Clark	sand & gravel	61,226	61,226	Ck-501	IM-340
Demmy Sand & Gravel 4324 Fairfield Pike Springfield, OH 45502 513-325-8840 Woodrow Demmy, owner	Demmy Sand & Gravel (54)	Clark	sand & gravel	8,146	8,146	Ck-502	IM-375
Dennis Clay Co. 11123 State Rte. 37 East New Lexington, OH 43764 614-342-5473 Tom L. Dennis, owner	Ohio Power (124) (124)	Muskingum	clay shale	12,340 5,313	12,340 5,313	Mum-903	IM-1115
	Baker (176)	Muskingum	clay shale	7,200	7,200	Mum-DCC	IM-1220
	Dennis Clay Co. (108)	Perry	clay shale			Py-338	IM-1092
	Snake Hollow (67) (159)	Perry	sandstone clay	2,973	2,973	Py-DCC	IM-1192
A. J. Diana Sons, Inc. 1916 Erie Ave. NW P.O. Box 488 Massillon, OH 44648 330-832-5904 Virgil V. Diana, pres.	Neidert Pit (320)	Stark	sand & gravel	7,500	10,250	Sk-694	IM-858

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Dingledine Basic Materials, Inc. 2304 Somerville Rd. P.O. Box 86 Somerville, OH 45064 513-726-5258 Gerald Dingledine, owner	Dingledine Basic Materials, Inc. (32)	Butler	sand & gravel	128,330	128,330	Br-50	IM-739
Dome Minerals, Inc. 15601 Emerick Rd. Kensington, OH 44427 330-223-1413 Fred A. Rogers, pres.	Dome Minerals, Inc. (79)	Columbiana	shale	12,611	12,611	Ca-947	IM-935
Don's Dozer Service, Inc. 8200 Seasons Rd. Streetsboro, OH 44241 216-626-5147 Donald R. McElravy, pres.	Don's Dozer Service, Inc. (529)	Portage	sand & gravel	307	307	Pe-96	IM-792
James E. Downard 1885 Mt. Zwingli Rd. Bremen, OH 43107 614-569-7849 James E. Downard, owner	Downard Pit (541) (155)	Fairfield	sand & gravel clay	6,000 2,644	6,000 2,644	Fd-16	IM-1156
Dravo Basic Materials Co., Inc. 3600 One Oliver Plaza Pittsburgh, PA 15222 412-566-3000 Carl A. Gilbert, pres.	Jones Pit (537) Newtown (128) Newtown (128)	Clermont Hamilton Hamilton	sand & gravel limestone sand & gravel sand & gravel	21,800 19,026 266,511	21,800 0 102,419	Ct-11 Hmn-11 ¹ Hmn-70 ²	Im-665 IM-133 IM-133
Dry Creek Gravel Co. 2097 Mt. Vernon Rd. Newark, OH 43055 614-366-3333 Gail Wolfe, pres.	Plant #2 (176) Plant #3 (177)	Licking Licking	sand & gravel sand & gravel	96,400 55,740	96,400 55,740	Lg-31 Lg-DC	IM-246 IM-354
C. E. Duff & Son, Inc. 9042 State Route 117 P.O. Box 295 Huntsville, OH 43324 513-686-2488 James E. Duff, pres.	Forest Quarry (156) Portable (444) C. E. Duff & Son, Inc. (50) Duff Sand Co. (182) Bellefontaine (420) C. E. Duff & Son, Inc. (183)	Hardin Logan Logan Logan Logan Logan	limestone sand & gravel limestone sand & gravel sand & gravel sand & gravel	20,255 384,499 88,666 10,472	20,255 384,499 88,666 10,472	Hdn-S Lgn-12 Lgn-15 Lgn-31 Lgn-36 Lgn-39	IM-1034 IM-1071 IM-453 IM-454 IM-1007 IM-887
E. A. Construction, Inc. 7013 S. Funk Rd. Shreve, OH 44676 330-496-2531 Ellis Aylsworth, pres.	E. A. Construction, Inc. (613) #1 (74) (185)	Wayne Wayne	sand & gravel sandstone clay	400 10,085 795	400 10,235 795	We-24 We-EA	IM-1211 IM-1259
E.M.A.I. Corp. dba ESSROC Materials, Inc. P.O. Box 5250 Poland, OH 44514 330-536-6275 Philippe Milliet, CEO	Bessemer Pit (57) (34) Carbon Pit (162) (107) (107)	Mahoning Mahoning	limestone shale limestone clay shale	116,668 112 1,810,414 116,995	116,668 112 1,810,414 116,995	Mg-608 Mg-EM	IM-4 IM-1056
East Fairfield Coal Co. 10900 South Ave. P.O. Box 217 North Lima, OH 44452-0217 330-549-2165 W. Thomas Mackall, pres.	Withers-Petersburg (602) (171) (53) (118)	Mahoning	sand & gravel limestone sandstone clay	4,025	4,025	Mg-631	IM-1103
Easton Resources, Inc. 1373 Route 322 E Orwell, OH 44076 216-422-3500 Milven W. Easton, pres.	Brockway (592)	Ashtabula	sand & gravel	520	520	Asa-22	IM-1214
Eaton Sand & Gravel Co. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 Charles Bucklew, pres.	Eaton Sand & Gravel Co. (132)	Hamilton	sand & gravel	4,000	4,000	Hmn-46	IM-396
R. A. Eberts Co., Inc. P.O. Box 109 Jackson, OH 45640 614-286-2975 Phil A. Bowman, pres.	Diamond Stone (9) (128)	Athens	limestone clay	239,973 166	239,973 166	As-533	IM-17

¹Sales of limestone only, production occurs at another operation.²Information for Hmn-70 is reported under Hmn-11.

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Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
David E. Edington P.O. Box 282 Frankfort, OH 45628 614-998-5328 David E. Edington, owner	Edington Pit (573)	Ross	sand & gravel	3,936	3,936	Rs-E	IM-1168
Elm Spring Farm 938 State Rte. 207 Chillicothe, OH 45601 614-775-5525 Joanna J. Haskins, owner	Elm Spring Farm (297)	Ross	sand & gravel	4,200	4,200	Rs-26	IM-922
Embro, Inc. 8320 N. State Rte. 123 Franklin, OH 45005 513-746-6121 Ronald Martz, pres.	Embro, Inc. (589)	Warren	sand & gravel			Wan-7	IM-151
Erie Blacktop, Inc. P.O. Box 2308 Sandusky, OH 44870 419-625-7374 Dean Wikel, pres.	Erie Blacktop Quarry (24) (637)	Erie	limestone	44,326	86,794	Ee-27	IM-608
	Erie Blacktop Sand & Gravel Pit (417)	Huron	sand & gravel sand & gravel	524	1,041	Hrn-16	IM-975
Erie Materials, Inc. 4507 Tiffin Ave. Sandusky, OH 44870 419-625-7374 Dean Wikel, pres.	Erie Materials, Inc. (83)	Erie	sand & gravel			Ee-18	IM-676
Erie Sand & Gravel Co. P.O. Box 179 Erie, PA 16512-0179 814-453-6721 Sidney E. Smith, Jr., pres.	Erie Sand & Gravel Co. (1)	Lake Erie	sand & gravel (dredged)	13,190	13,190	Ee-D	
Craig Fankhauser 13 Knollwood Perrysburg, OH 43551 419-535-5931 Craig Fankhauser, owner	Fankhauser Pit (557)	Lucas	sand & gravel	3,750	3,750	Ls-F	IM-1160
Feikert Sand & Gravel, Inc. 6971 County Rd. 189 Millersburg, OH 44654-9186 330-674-0038 Lynn O. Feikert, pres.	Feikert Sand & Gravel, Inc. (154) Feikert Sand & Gravel, Inc. (624)	Holmes Holmes	sand & gravel sand & gravel	81,100	81,100	Hs-511 Hs-F ³	IM-1048 IM-1240
Fenner Sand & Gravel, Inc. 7131 W. Fenner Rd. Ludlow Falls, OH 45339 513-698-7048 Robert P. Snead, pres.	Woodville Concrete Corp. (222)	Miami	sand & gravel	104,000	104,000	Mi-4	IM-472
Fleckenstein Farm Gravel Pit 11251 State Rte. 66 Minster, OH 45865 513-295-2417 Ferd J. Fleckenstein, owner	Fleckenstein Farm Gravel Pit (310)	Shelby	sand & gravel	4,120	4,120	Shy-12	IM-528
Fleming Construction Co., Inc. P.O. Box 31 Marion, OH 43301-0031 614-494-2177 Gerald E. Fleming, pres.	Fleming Construction Co., Inc. (423)	Marion	sand & gravel	364	364	Mn-19	IM-990
Flesher Sand & Gravel, Inc. 3322 Clark Mill Rd. Norton, OH 44203 330-745-9239 James E. Flesher, pres.	Flesher Sand & Gravel, Inc. (327)	Summit	sand & gravel			St-52	IM-900
David L. Florence 1617 Staunton Ave. Parkersburg, WV 26101 614-374-0272 Joan D. Florence, owner	Florence Pit (163)	Washington	clay			Wn-F	IM-128

³Information for Hs-F is reported under Hs-511.

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Foureman's Sand & Gravel, Inc. 2791 Wildcat Rd. Greenville, OH 45331 513-548-1718 Gary B. Foureman, pres.	Foureman's Sand & Gravel, Inc. (80)	Darke	sand & gravel	59,883	59,883	Dke-4	IM-433
Fox Stone Products, Inc. P.O. Box 299 Put-in-Bay, OH 43456 419-285-3025 Richard H. Fox, owner	Fox Stone Products, Inc. (180)	Ottawa	limestone	8,000	8,000	Oa-18	IM-635
The France Stone Co. 8130 Brint Rd. P.O. Box 278 Sylvania, OH 43560-0278 419-882-0123 Brian J. Wheeler, pres.	Waterville (52) Sylvania (53) Paulding (86) Flat Rock (107) Bloomville (108)	Lucas Lucas Paulding Seneca Seneca	limestone limestone limestone limestone limestone	511,669 715,509 241,635 1,053,785 520,937	447,627 672,724 313,379 2,153,908 468,565	Ls-1 Ls-3 Pg-7 Sa-1 Sa-3	IM-575 IM-580 IM-347 IM-349
Friendsville Sand, L.P. 9601 Avon Lake Rd. Lodi, OH 44254 216-948-2610 Richard L. Rothel, pres.	Friendsville Sand, L.P. (558)	Medina	sand & gravel	46,759	46,759	Ma-23	IM-1177
Lloyd Fry P.O. Box 1515 Piqua, OH 45356 513-773-1541 Lloyd Fry, pres.	Lloyd Fry (390)	Miami	sand & gravel			Mi-T	IM-696
Frye Sand & Gravel, Inc. 3049 S. Denmark Rd. P.O. Box 3 Dorset, OH 44032 216-858-2627 Harold L. Frye, owner	Frye Sand & Gravel, Inc. (9)	Ashtabula	sand & gravel	1,171	1,171	Asa-10	IM-198
G & M Supply, Inc. dba Clinton Stone, Inc. 1203 N. Pennsylvania Ave. P.O. Box 468 Wellston, OH 45692 614-384-4211 Bonny A. Huffman, pres.	Sands Hill (124)	Vinton	limestone			Vn-174	D-0309
Ganges Gravel Co. P.O. Box 638 Mansfield, OH 44901 419-525-2656 Don Daugherty, owner	Ganges Gravel Co. (289)	Richland	sand & gravel	6,182	6,182	Rd-18	IM-670
John L. Garber Materials, Inc. Rte. 8 Lexington, OH 44904 419-884-1567 John L. Garber, pres.	John L. Garber Materials, Inc. (290)	Richland	sand & gravel	269,212	270,218	Rd-14	IM-436
Al Gasser Excavating, Inc. 1308 Gasser Rd. NW Dover, OH 44622 330-343-9407 Allen L. Gasser, pres.	Gasser Pit (587)	Tuscarawas	sand & gravel	2,375	2,375	Ts-2049	IM-1151
Geiger Sand & Gravel 173 James Rd. Gahanna, OH 43230 614-337-9906 Steve Geiger, owner	Alexandria Pit (600)	Licking	sand & gravel	18,162	20,000	Lg-W	IM-1213
General Clay Products Corp. P.O. Box 236 Baltic, OH 43804-0236 330-897-7171 Terry Jones, mine foreman	Drescher Pit (6) (6) Troyer Pit (18)	Coshocton Holmes	clay shale shale	3,851 8,344	3,851 8,344	Cn-787 Hs-77	IM-610 IM-545
General Clay Products Corp. P.O. Box 550 Logan, OH 43138 614-385-5616 Harold B. Epler, Jr., pres.	General Clay Products Corp. (12) (12) General Clay Products Corp. (110)	Hocking Hocking	clay shale shale			Hg-205 Hg-330	IM-21 IM-1013

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
General Clay Products Corp. P.O. Box 340 Wadsworth, OH 44281 330-335-1515 Stephen Markovich, gen. mgr.	General Clay Products Corp. (37)	Medina	shale	35,314	35,314	Ma-6	IM-455
General Clay Products Corp. 1445 Goodale Blvd. Columbus, OH 43212 330-335-1515 Stephen Markovich, gen. mgr.	Plant #7 (73)	Wyandot	clay			Wt-7	IM-407
GenLime Group, L.P. P.O. Box 158 Genoa, OH 43430 419-855-8336 P. J. Senechal, pres.	GenLime Group, L.P. (85)	Ottawa	limestone	1,031,798	349,351	Oa-1	IM-292
Gerken Materials, Inc. P.O. Box 607 Napoleon, OH 43545 419-533-2421 Julian A. Gerken, pres.	Gerken Materials, Inc. (147) Gerken Materials, Inc. (614)	Henry Williams	sand & gravel sand & gravel			Hy-5 Ws-20	
Gibson Sand & Gravel Co. 1385 Knorr Rd. Galion, OH 44833 419-468-5527 Arthur T. Gibson, owner	Gibson Sand & Gravel Co. (75)	Crawford	sand & gravel	464	464	Cd-3	IM-693
Glen-Gery Corp. P.O. Box 398 Caledonia, OH 43314 419-845-3321 Evan Davis, plant supt.	Iberia Quarry (36)	Marion	shale	174,759	174,759	Mn-7	IM-309
Golden Crescent Construction, Inc. 1104 Milan Ave. Amherst, OH 44001 216-967-6822 Samuel T. Bartlett, pres.	Golden Crescent Construction, Inc. (66)	Lorain	sandstone			Ln-14	IM-1205
Golsch Construction, Inc. 9880 Valley Junction Rd. Cleves, OH 45002 513-353-2555 Gary Golsch, pres.	Golsch Pit (641)	Hamilton	sand & gravel			Hmn-G	IM-1270
David B. Good 1203 Kieffer St. Wooster, OH 44691 330-264-6803 David B. Good, owner	Good Pit (508)	Ashland	sand & gravel	3,310	3,310	Ald-G	IM-1121
Good Builders 35280 Linton Rd. Logan, OH 43138 614-385-5872 Steve Good, owner	Good Builders (596) (171)	Hocking	sand & gravel clay	200	200	Hg-G	IM-1201
Goodwin Sand & Gravel, Inc. 126 S. Norton St. Mt. Vernon, OH 43050 614-392-7971 Thomas J. Mill, plant mgr.	Goodwin Sand & Gravel, Inc. (160)	Knox	sand & gravel	29,900	36,000	Kx-7	IM-235
Gotttron Bros. Co. 100 South Stone St. Fremont, OH 43420 419-332-5281 Harry P. Gotttron, Jr., v. pres.	Gotttron Bros. Co. (101)	Sandusky	limestone	88,341	47,050	Sy-5	IM-259
James D. Graham 2036 State Route 725 Spring Valley, OH 45370 513-862-4655 James D. Graham, owner	Graham Pit (550)	Greene	sand & gravel			Ge-G	IM-655
The Gravel Co. 325 Clark Rd. P.O. Box 15501 Cincinnati, OH 45215 513-761-4980 Roy B. Schweitzer, pres.	Cleves (141)	Hamilton	sand & gravel			Hmn-28	IM-353

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
The Gravel Co. 151 Seven Mile Ave. New Miami, OH 45011 513-761-4980 Roy B. Schweitzer, pres.	New Miami Pit (42)	Butler	sand & gravel			Br-3	IM-719
Green Basin Coal, Inc. 8758 Fort Laurens Rd. NW Strasburg, OH 44680 330-878-7740 John Limbacher, pres.	Blackhawk (169) (63) (103) (103)	Tuscarawas	limestone sandstone clay shale			Ts-2024	IM-1087
Green Oaks Potting Products, Inc. 2222 Lake Rockwell Rd. P.O. Box 979 Ravenna, OH 44266 330-296-2157 John A. Lyon, pres.	Green Oaks (7) (451) (161)	Portage	peat sand & gravel clay	2,089 404 167	2,089 404 167	Pe-89	IM-1142
H. T. Griffin Excavating, Inc. 3950 S. Berkey Southern Swanton, OH 43558 419-826-0230 Henry T. Griffin, owner	H. T. Griffin Excavating, Inc. (472)	Lucas	sand & gravel			Ls-G	IM-1090
Grimes Excavating Rte. 3 Box 121 New Matamoras, OH 45767 614-865-2267 Lewis Grimes, owner	Grimes Excavating (533)	Washington	sand & gravel	52,800	52,800	Wn-1008	IM-1111
Gwin Contracting Co. P.O. Box 205 Columbiana, OH 44408 330-482-2442 Lyle D. Gwin, pres.	Gwin Contracting Co. (30)	Mahoning	sandstone	7,799	7,799	Mg-62	IM-599
H & H Utilities Co. 7307 S. Kessler-Frederick Rd. West Milton, OH 45383 513-223-6752 Gerald Hochwalt, pres.	H & H Gravel (229)	Montgomery	sand & gravel	2,657	2,657	My-68	IM-646
J. M. Hamilton & Sons Co., Inc. 1974 Marion-Bucyrus Rd. Marion, OH 43302 614-382-2189 O. E. Hamilton, pres.	J. M. Hamilton & Sons Co., Inc. (59)	Marion	limestone	129,918	129,918	Mn-2	IM-423
Hardin Quarry Co., Inc. 12484 State Rte. 701 Kenton, OH 43326 419-675-1327 Richard Pees, pres.	Hardin Quarry Co., Inc. (38)	Hardin	limestone	169,184	169,184	Hdn-2	IM-443
Norman Harpster 16069 State Rte. 235 Belle Center, OH 43310 513-464-5623 Norman Harpster, owner	Harpster Pit (553)	Hardin	sand & gravel	500	500	Hdn-H	IM-864
Harrison Sand & Gravel Co. 10980 Campbell Rd. Harrison, OH 45030 513-367-5174 Donald Gauck, v. pres.	Harrison Sand & Gravel Co. (135)	Hamilton	sand & gravel	90,976	100,500	Hmn-17	IM-295
Haubeil & Sons Asphalt & Materials, Inc. 379 Seney Rd. Chillicothe, OH 45601 614-773-6358 George Haubeil, pres.	Haubeil & Sons Asphalt & Materials, Inc. (491)	Ross	sand & gravel	124,729	124,729	Rs-H	IM-1052
Haueter Sand & Gravel, Inc. P.O. Box 206 Chardon, OH 44024 216-286-9482 Donald H. Haueter, pres.	Haueter Sand & Gravel, Inc. (108) Haueter Sand & Gravel, Inc. (545)	Geauga Geauga	sand & gravel sand & gravel	257,425	257,425	Gea-29 Gea-H	IM-215 IM-510

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Heer Excavating, Inc. 7381 State Route 66 Archbold, OH 43502 419-445-3415 Daniel E. Heer, pres.	Mason Pit (634)	Williams	sand & gravel	4,041	4,041	Ws-22	IM-1222
Heiser Sand & Gravel Co. P.O. Box 2491 North Canton, OH 44720 330-499-8201 Richard L. Heiser, owner	Heiser Sand & Gravel Co. (323) Heiser Sand & Gravel Co. (608) Heiser Sand & Gravel Co. (609)	Stark Stark Stark	sand & gravel sand & gravel sand & gravel	59,345	59,345	Sk-688 Sk-HS Sk-HS1	IM-763 IM-1193 IM-1203
Paul N. Herdman P.O. Box 36 Lebanon, OH 45036 513-233-5555 Paul N. Herdman, pres.	Herdman Pit (429)	Warren	sand & gravel	672	672	Wan-46	IM-679, IM-842
Hidden Harbour Partners 6725 West Central Ave. Toledo, OH 43617 419-841-2980 Richard Moses, pres.	Hidden Harbour Partners (645)	Lucas	sand & gravel	79,621	79,621	Ls-H1	IM-1277
Hillsdale Sand & Gravel, Inc. P.O. Box 223 Archbold, OH 43502 419-445-1015 Dean Miller, pres.	Hillsdale Sand & Gravel, Inc. (82)	Defiance	sand & gravel	5,524	0	De-2	IM-765
Hilltop Aggregate, Inc. P.O. Box 362 Mogadore, OH 44260 330-628-4000 Robert W. West, pres.	Hilltop Aggregate, Inc. (262)	Portage	sand & gravel	458,816	458,816	Pe-56	IM-127
Hilltop Basic Resources, Inc. One West Fourth St., Suite 1100 Cincinnati, OH 45202-3615 513-878-8631 John Steele, Jr., pres.	Fairborn Aggregate Plant (112) West Carrollton Aggregate Plant (232)	Clark, Greene Montgomery	sand & gravel sand & gravel	662,322 846,061	452,354 595,426	Ge-4 My-19	IM-394 IM-401, IM-916
Hilltop Basic Resources, Inc. dba Enon Washed Sand & Gravel Co. 1665 Enon-Donnelsville Rd. P.O. Box 363 Enon, OH 45323 513-878-8631 John Steele, Jr., pres.	Enon Washed Sand & Gravel Co. (57)	Clark	sand & gravel	267,319	264,352	Ck-3	IM-463
Hocking Valley Concrete, Inc. 35255 Hocking Dr. Logan, OH 43138 614-385-2165 William G. Vaughn, pres.	Hocking Valley Concrete, Inc. (151)	Hocking	sand & gravel	95,000	95,000	Hg-262	IM-41
William A. Hoffman, Jr. 25043 State Rte. 104 Circleville, OH 43113 614-474-2002 William A. Hoffman, Jr., owner	Hoffman Pit (480)	Pickaway	sand & gravel	6,023	6,023	Pky-H	IM-1039
Tom Hollinger Excavating 2097 Hollansburg-Arcanum Rd. New Madison, OH 45346 513-996-5381 Thomas W. Hollinger, leasee	Hollinger Gravel Plant (81)	Darke	sand & gravel	296	296	Dke-10	IM-326
Holloway Sand & Gravel Co., Inc. P.O. Box 456 Aberdeen, OH 45101-0456 513-544-5524 Dan Holloway, pres.	Holloway Sand & Gravel Co., Inc. (173)	Adams	limestone			Ads-H	IM-805
Holmes Limestone Co. P.O. Box 295 Berlin, OH 44610 330-893-2721 Merle Mullet, pres.	241 Plant (44) (19) (19) Bolivar Mine (76) Rainsberg (151)	Holmes Stark Tuscarawas	limestone clay shale clay shale	121,172 7,652 6,671 43,600	121,172 7,652 6,671 43,600	Hs-67 Sk-235 Ts-H1	IM-3, IM-768 IM-945 IM-927

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Honey Creek Stone Co. P.O. Box 286 Petersburg, OH 44454 330-542-2372 Carmen Shick, pres.	Honey Creek Stone Co. (56)	Mahoning	limestone	238,666	226,024	Mg-54	IM-93
Huck Farms 1162 S. Riverside Dr. McConnelsville, OH 43756 614-962-3467 Louis & Cecil Huck, partners	Huck Farms (241)	Morgan	sand & gravel			Mon-599	
Hugo Sand Co. 7055 State Rte. 43 Kent, OH 44240 216-587-2700 Dorothy M. Strohm, pres.	Hugo Sand Co. (264)	Portage	sand & gravel	293,167	293,167	Pe-10	IM-138
Hydraulic Press Brick Co. 8900 Hemlock Rd. P.O. Box 31330 Independence, OH 44131 314-621-9306 W. W. Allen, Jr., pres.	Hydraulic Press Brick Co. (7)	Cuyahoga	shale	243,164	243,164	Cya-19	IM-95
Inland South Aggregates 51778 Darlington Rd. Negley, OH 44441 330-426-6733 Lorraine Sugar, pres.	Inland South Aggregates (539)	Columbiana	sand & gravel	3,421	3,421	Ca-351	IM-634
JP Sand & Gravel Co. 5911 Lockbourne Rd. P.O. Box 2 Lockbourne, OH 43137 614-497-0083 Richard A. Roberts, pres.	JP Sand & Gravel Co. (98)	Franklin	sand & gravel	535,485	535,485	Fn-52	IM-191
JTM Industries, Inc. 1000 Cobb Place Blvd., Bldg. 400 Kennesaw, GA 30144 614-622-8585 Rick Ryan, plant mgr.	Ross Clay Mine (181) JTM Farm Clay Mine (154)	Coshocton Coshocton	clay clay	1,600 12,800	1,600 12,800	Cn-JT Cn-JTM	IM-1253 IM-1199
Glen James & Sons, Inc. 3930 Boggs Rd. Zanesville, OH 43701 614-454-1522 Glen James, pres.	Glen James & Sons, Inc. (626)	Muskingum	sand & gravel			Mum-J	IM-1229
Janson's Soil Service, Inc. 1492 Mechanicsville Rd. Rock Creek, OH 44084 216-466-3835 Peter E. Janson, III, pres.	Janson's Soil Service, Inc. (10) (82) (82)	Ashtabula	sand & gravel clay shale	50 50	50 50	Asa-14	IM-563
Jarrett Sand Co. 6505 Skadden Rd. Sandusky, OH 44870 419-359-1750 James Jarrett, owner	Jarrett Sand Co. (84)	Erie	sand & gravel	2,457	2,457	Ee-29	
Jaymar, Inc. 8751 N. State Route 7 Cheshire, OH 45620 614-992-6637 Jay Hall, Jr., pres.	Jaymar, Inc. (544)	Gallia	sand & gravel	219,994	219,994	Ga-J	IM-1145
Jefferson Materials Co. 8505 State Rte. 14 Streetsboro, OH 44241 330-626-3816 Charles Rauh, pres.	Howitt (265)	Portage	sand & gravel	257,926	257,926	Pe-63	IM-82
Jimsco, Inc. P.O. Box 651 Dayton, OH 45449 513-233-7500 James T. McDonald & H. A. Scott, partners	Taylorville Rd. Hardfill (236)	Montgomery	sand & gravel	952	952	My-55	IM-571

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Johnson Rd. Sand & Gravel 510 Johnson Rd. Kent, OH 44240 330-673-3396 Robert K. Heimann, pres.	Johnson Rd. Sand & Gravel (615)	Portage	sand & gravel			Pe-98	IM-1219
Joseph Sand & Gravel, Inc. 16272 Boundary Rd. Wapakoneta, OH 45895 419-568-3787 Mary J. Joseph, owner	Joseph Sand & Gravel, Inc. (23)	Auglaize	sand & gravel	1,088	1,088	Ae-23	IM-508
K.C.C.I. P.O. Box 24 Morristown, OH 43759 614-782-1087 George Krulock, pres.	Apex (176)	Jefferson, Harrison	limestone	5,103	5,103	Jfn-K	IM-1164
Karg Sand & Gravel Co. 2088 Congress Lake Rd. Mogadore, OH 44260 330-628-2747 Thomas R. Karg, owner	Karg Sand & Gravel Co. (266)	Portage	sand & gravel	59,000	59,000	Pe-83	IM-179
Keener Sand & Clay Co. 330 Dering Ave. Columbus, OH 43207 614-444-1105 Carl F. Weiffenbach, pres.	Huron Plant (85)	Erie	sand & gravel	613	613	Ee-5	
Keeney Sand & Stone, Inc. 13320 Girdled Rd. Painesville, OH 44077 216-254-4375 Dennis Keeney, pres.	Keeney Sand & Stone, Inc. (60)	Lake	sandstone	61,606	61,606	Lke-K	IM-859
Kellstone, Inc. 3203 Harvard Ave. Newburgh Heights, OH 44105 216-883-7200 James A. Palladino, pres.	Kellstone, Inc. (174)	Erie	limestone	776,198	776,198	Ee-K	IM-727
Kieco Sand & Shale P.O. Box 470 Moxahala, OH 43761 614-342-1594 Mary Kiener, owner	Kieco Sand & Shale (61) (149)	Perry	sandstone shale			Py-K	IM-851
Kilbarger Construction, Inc. P.O. Box 946 Logan, OH 43138 614-385-6019 Edward Kilbarger, pres.	Kilbarger Gravel Pit (523)	Hocking	sand & gravel	500	500	Hg-329	IM-1112
Kimble Clay & Limestone Co. 3596 State Route 39 NW Dover, OH 44622-9801 330-343-1226 Floyd E. Kimble, owner	Kimble Clay & Limestone Co. (117) (41) (63) (63)	Tuscarawas	limestone sandstone clay shale	57,257 3,345 176,921	57,257 3,345 176,921	Ts-1818	IM-9
King Limestone, Inc. 53681 Spencer Rd. Cumberland, OH 43732 614-638-3942 Duane King, pres.	King Limestone, Inc. (147)	Guernsey, Muskingum	limestone	296,148	296,148	Gy-309	IM-1030
King Quarries, Inc. 41499 County Rd. 7 Caldwell, OH 43724 614-732-2923 David King, pres.	King Quarries, Inc. (194)	Noble	limestone	7,596	7,596	Ne-K	IM-1254
Kinsman Sand & Gravel Co. P.O. Box 79 Kinsman, OH 44428 216-293-5400 Glenn B. Harnett, pres.	Kinsman Sand & Gravel Co. (593)	Ashtabula	sand & gravel	58,865	58,865	Asa-20	IM-1198
Kipp's Gravel Co., Inc. 4987 State Rte. 222 Batavia, OH 45103 513-732-1024 Melvin M. Kipp, pres.	Kipp's Gravel Co., Inc. (61)	Clermont	sand & gravel	150,293	150,293	Ct-7	IM-432

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Kirby's Sand & Gravel, Inc. 4876 County Hwy. 43 Upper Sandusky, OH 43351 419-927-2260 Doris Kirby, owner	Kirby's Sand & Gravel, Inc. (382) Kirby's Sand & Gravel, Inc. (591)	Wyandot Wyandot	sand & gravel sand & gravel	116,320	116,320	Wt-17 Wt-K	IM-604 IM-943
Kleese Development Associates, Inc. 45 North Rd. Niles, OH 44446 330-652-5991 Robert Kleese, pres.	Kleese Development Associates, Inc. (499)	Trumbull	sand & gravel			Tl-K	IM-1101
Leonard E. Kleilein 2511 Mansfield-Lucas Rd. Lucas, OH 44843 419-524-2541 Leonard E. Kleilein, owner	Kleilein Pit (629)	Richland	sand & gravel	21,000	24,818	Rd-K	IM-1232
Board of Knox County Commissioners 110 East High St. Mt. Vernon, OH 43050 216-397-1590 James Henry, engineer	Apple Valley (148)	Knox	shale	6,536	6,536	Kx-K	IM-870
Koch Engineering Co., Inc. Knight Division 171 Kelley Ave. Akron, OH 44306 330-724-1277 Allen R. Smalley, mgr.	Koch Engineering Co., Inc. (174)	Stark	clay	175	175	Sk-K	IM-1236
T & K Kuhnle Co. P.O. Box 375 Newbury, OH 44065 216-626-4400 Thomas Kuhnle, pres.	T & K Kuhnle Co. (518)	Geauga	sand & gravel			Gea-TK	IM-902
L & I Natural Resources, Inc. 10369 Cones Rd. Loveland, OH 45140 513-683-2045 Alvin Walker, pres.	L & I Pit & Mill (430)	Warren	sand & gravel	136,981	136,981	Wan-50	IM-1006
L & M Mineral Co. 5205 State Rte. 39 Millersburg, OH 44654 330-893-2227 John E. Ling, Jr., pres.	Evans-Cox (64) Luikert (65) Spring (170) (55) (77) (77) Ridgeway (192)	Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas Tuscarawas	shale clay limestone sandstone clay shale shale	26,748 13,125 13,125	26,748 13,125 13,125	Ts-1884 Ts-1914 Ts-1982	IM-6 D-0701 IM-621
Lafarge Corp. Great Lakes Region P.O. Box 160 Paulding, OH 45879 419-399-4861 Andrew Robb, plant mgr.	Paulding Quarry (87) (42)	Paulding	limestone clay	617,896 22,850	617,896 22,850	Pg-1	IM-513
Lake Hope Asphalt, Inc. P.O. Box 38 Nelsonville, OH 45764 614-753-1005 Francis Efaw, pres.	Lake Hope Asphalt, Inc. (21)	Athens	sand & gravel	21,336	24,120	As-1161	IM-97
Lakeside Sand & Gravel Co. 3431 Frost Rd. Mantua, OH 44255-9444 216-274-2569 Larry Kotkowski, partner	Lakeside Sand & Gravel Co. (268)	Portage	sand & gravel	266,243	266,243	Pe-40	IM-190
Lancaster Sand & Gravel Co. 3232 Logan-Lancaster Rd. SE Lancaster, OH 43130 614-687-4420 Jerry Mock, foreman	Lancaster Sand & Gravel Co. (92)	Fairfield	sand & gravel	421,904	421,904	Fd-13	IM-848
Latham Limestone, Inc. P.O. Box 77 Latham, OH 45646 614-493-2677 Robert Murray, pres.	Latham Limestone, Inc. (91)	Pike	limestone	353,418	380,000	Pke-13	IM-213

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Leetonia Sand & Gravel Co., Inc. P.O. Box 236 Canfield, OH 44406 330-427-1015 Stephen Holowach, pres.	Leetonia Sand & Gravel Co., Inc. (463) (65)	Columbiana	sand & gravel sandstone			Ca-982	IM-1108
Leonard Sand & Gravel 6539 River Rd. Harrison, OH 45030 513-738-4194 Bertha A. Leonard, owner	Leonard Sand & Gravel (137)	Hamilton	sand & gravel	200	200	Hmn-67	IM-529
Lerkis Asphalt Co., Inc. & Subsidiary 550 Dan St. Akron, OH 44310 216-376-7560 Gus J. Lerkis, pres.	Minor Rd. Plant (328)	Summit	sand & gravel			St-39	IM-983
Letart Corp. P.O. Box 430 Gallipolis Ferry, WV 25515-0430 304-675-7516 Jon Thompson, pres.	Letart Corp. #5 (559) Letart Corp. #4 (560)	Meigs Meigs	sand & gravel sand & gravel			Ms-L Ms-308	IM-1159 IM-1174
Lingvai Peat Co. R.R. 2 01693 Rd. 8 Edgerton, OH 43517 419-298-2058 Ronald Lingvai, owner	Lingvai Peat Co. (4)	Williams	peat	104	0	Ws-17	
Link Trucking Co. 5209 State Rte. 60 N McConnelsville, OH 43756 614-962-2150 Paul Kussmaul, pres.	Link Trucking Co. (647)	Morgan	sand & gravel	8,604	12,238	Mon-L	IM-1266
London Tile Co. 65 Walnut St. New London, OH 44851 419-929-1551 Sylvia Danison, pres.	Biglow (1)	Ashland	shale	1,224	1,224	Ald-1	IM-334
Loxley Aggregates, Inc. 4277 Falls Rd. Lewisburg, OH 45338 513-839-5488 Matthew L. Loxley, pres.	Loxley Aggregates, Inc. (488) (101)	Preble	sand & gravel clay	4,394 1,972	4,394 1,972	Pre-9	IM-1095
Lucky Sand & Gravel Co. 12018 Frost Rd. Mantua, OH 44255 216-562-6196 Bernard Udelson, pres.	Lucky Sand & Gravel Co. (570)	Portage	sand & gravel	116,602	116,602	Pe-L	IM-154
Ludowici-Celadon Co. P.O. Box 69 New Lexington, OH 43764 614-342-1995 Jerry Smith, pres.	Donnelly Pit (46)	Perry	shale			Py-212	IM-58
M & J Sand & Gravel, Inc. 130 Fourth St. Parkersburg, WV 26101 304-375-9939 Gale Wilson, pres.	M & J Sand & Gravel, Inc. (590) (152)	Washington	sand & gravel shale	35,460	35,460	Wn-1010	IM-1163
M & M Builders Supply Co. 5820 Carbon Hill Rd. East Palestine, OH 44413 330-426-9958 Hugh Madden, owner	M & M Builders Supply Co. (47) (106) (106)	Columbiana	sandstone clay shale	25,536	25,536	Ca-970	IM-1024
Al Mackey Enterprises, Inc. 12290 Airport Highway Swanton, OH 43558 419-826-7700 Al Mackey, pres.	Al Mackey Enterprises, Inc. (622) Al Mackey Enterprises, Inc. (639) Al Mackey Enterprises, Inc. (646)	Fulton Fulton Lucas	sand & gravel sand & gravel sand & gravel			Ftn-M Ftn-M1 Ls-M	IM-1246 IM-1275 IM-1261
MacRitchie Materials, Inc. P.O. Box 90 West Millgrove, OH 43467 419-288-2790 Donald B. MacRitchie, pres.	MacRitchie Materials, Inc. (130)	Wood	limestone	388,800	388,800	Wd-1	IM-548

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Marshall Quarry, Inc. 11199 State Rte. 124 Hillsboro, OH 45133 513-466-2636 Ronald L. Main, pres.	Marshall Quarry, Inc. (43)	Highland	limestone	8,201	8,201	Hd-4	IM-406
Donald Martin Contracting 1875 Roxanna-New Burlington Rd. Waynesville, OH 45068 513-862-4182 Roger J. Martin, owner	Donald Martin Contracting (403)	Greene	sand & gravel	750	750	Ge-40	IM-923
Martin Marietta Aggregates 5253 Wooster Rd. Cincinnati, OH 45226 513-533-2173 Michael Vickers, admin. mgr.	Fairfield (33) Ross (34) Cleves (126) Camp Dennison (127) Cleves (130) Roell (131) Miami town (468) Lynchburg (175) Apple Grove (209)	Butler Butler Hamilton Hamilton Hamilton Hamilton Highland Meigs	sand & gravel limestone sand & gravel sand & gravel limestone sand & gravel sand & gravel sand & gravel limestone sand & gravel	 38,961 853,973 48,724 694,712 676,328 740,000	 0 640,874 0 654,606 742,987 747,500	Br-14 Br-29 ⁴ Hmn-3 Hmn-5 ⁵ Hmn-64 ⁶ Hmn-68 Hmn-D Hd-D Ms-205	IM-147 IM-149 IM-137 IM-148 IM-821 IM-747 IM-1079 IM-1170 IM-30
Martin Marietta Magnesia Specialties, Inc. 755 Lime Rd. Woodville, OH 43469 419-849-3111 Tim Albertson, plant acct.	Woodville Quarry (102)	Sandusky	limestone	2,896,800	2,896,800	Sy-1	IM-537
Mason's Sand & Gravel Co. 2385 Rathmell Rd. Columbus, OH 43207 614-491-3611 Gordon Masteller, pres.	Mason's Sand & Gravel Co. (100)	Franklin	sand & gravel	91,954	91,954	Fn-11	IM-234
Massillon Materials, Inc. 26 N. Cochran St. P.O. Box 499 Dalton, OH 44618 330-832-4767 Howard J. Wenger, pres.	Massillon Materials, Inc. (495)	Stark	sand & gravel	460,265	460,265	Sk-M	IM-1031
Massillon Washed Gravel Co. 6331 Blough Ave. SW P.O. Box 167 Navarre, OH 44662 216-879-2132 Thomas E. Thomas, pres.	Massillon Washed Gravel Co. (325) Massillon Washed Gravel Co. (578)	Stark Stark	sand & gravel sand & gravel	323,422	323,422	Sk-607 Sk-MW	IM-102 IM-1171
Maxville Quarries, Inc. 7957 State Rte. 668 S Logan, OH 43138 614-385-2568 David J. McCort, pres.	Carpenter (89) Downhour (168)	Perry Perry	limestone limestone	204,619 0	0 205,522	Py-235 Py-343	IM-11, IM-515 IM-1061
McCarthy Stone Quarry 6326 County Rd. 61 Upper Sandusky, OH 43351 419-294-2611 Charles H. McCarthy, owner	McCarthy Stone Quarry (133)	Wyandot	limestone	212,041	212,041	Wt-3	IM-298
David McCourt Mining Co. R.D. #1 Irondale, OH 43932 614-768-2260 David McCourt, owner	David McCourt Mining Co. (131)	Columbiana	clay			Ca-DM	IM-919
Bill McKeever Excavating 207 Bloomfield Ave. Urbana, OH 43078 513-652-1898 Bill McKeever, owner	Bill McKeever Excavating (536)	Champaign	sand & gravel	240	240	Cpn-24	IM-1167
Mecco, Inc. 2504 S. Main St. Middletown, OH 45042 513-422-3651 David T. Morgan, pres.	Mecco, Inc. (39)	Butler	sand & gravel	407,902	407,902	Br-15	IM-316

⁴Sales of limestone only, production occurs at another operation.⁵Sales of limestone only, production occurs at another operation.⁶Information for Hmn-64 is reported under Hmn-3.

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Mechanicsburg Sand & Gravel, Inc. P.O. Box 18 Mechanicsburg, OH 43044 513-834-2606 John D. Cushman, pres.	Mechanicsburg Sand & Gravel, Inc. (50)	Champaign	sand & gravel	201,359	201,359	Cpn-22	IM-889
Meigs County Commissioners Rte. 2 Rocksprings Rd. Pomeroy, OH 45769 614-992-2911 David H. Spencer, office mgr.	Meigs County Pit (211)	Meigs	sand & gravel	27,230	27,230	Ms-301	IM-619
Melvin Stone Co. 228 Melvin Rd. Wilmington, OH 45177 513-584-2486 Craig Beam, pres.	Melvin Stone Co. (17) Melvin Stone Co. (28) Melvin Stone Co. (92) Circleville (251) Melvin Stone Co. (603) Melvin Stone Co. (481)	Clinton Fayette Pickaway Pickaway Pickaway Pickaway	limestone limestone limestone sand & gravel sand & gravel sand & gravel	1,520,962 266,683 253,814 252,587	1,520,962 266,683 253,814 252,587	Cln-1 Fe-1 Pky-4 Pky-1 Pky-AAC Pky-R	IM-241 IM-831 IM-209 IM-428 IM-1204 IM-993
Menuez Bros. Sand & Gravel, Inc. 5366 County Rd. 349 Rte. 1 Millersburg, OH 44654 330-674-4254 Gene Menuez, pres.	Fair Pit (153)	Holmes	sand & gravel	186,021	195,000	Hs-82	IM-707
Mesenburg Bros., Inc. R.D. 1 Collins, OH 44826 419-668-5691 Peter J. Mesenburg, pres.	Mesenburg Bros., Inc. (20)	Huron	sandstone	17,934	17,934	Hrn-8	IM-268
Miami River Stone Co. 1556 Miami River Rd. Sidney, OH 45365 513-492-5412 Bradley Comer, pres.	Miami River Stone Co. (110) Miami River Stone Co. (311)	Shelby Shelby	limestone sand & gravel	462,486	462,486	Shy-6 Shy-17	IM-389 IM-389
Mickley Gravel Co. P.O. Box J Danville, OH 43014 614-599-7870 Paul A. Mickley, owner	Mickley Gravel Co. (162)	Knox	sand & gravel	850	850	Kx-5	IM-884
Doug Mill 12313 Staddens Bridge Rd. Newark, OH 43056 614-763-3901 Doug & Susan Mill, owners	Newark (174)	Licking	sand & gravel			Lg-2	IM-184
Miller Bros. Construction, Inc. Rte. 1 Box 30 Archbold, OH 43502 419-445-1015 Dale Miller, pres.	Miller Bros. Construction, Inc. (526)	Logan	sand & gravel	6,228	6,228	Lgn-M	IM-799
Miller Bros. Gravel, Inc. 7900 S. Kessler-Frederick Rd. Tipp City, OH 45371 513-836-0981 Thomas O. Miller, pres.	Miller Bros. Gravel, Inc. (233)	Montgomery	sand & gravel	324,864	229,633	My-52	IM-348
Miller Mining, Inc. P.O. Box 525 Sugarcreek, OH 44681 330-852-4511 Olen Miller, pres.	Miller Mining, Inc. (142)	Tuscarawas	clay			Ts-MMO	IM-1166
Miller Sand & Gravel, Inc. 10228 State Rte. 82 Windham, OH 44288 330-326-3157 Donald M. Miller, owner	Miller Sand & Gravel, Inc. (272)	Portage	sand & gravel	4,235	4,235	Pe-39	IM-174
Mitchell Transport, Inc. 35746 Lake Shore Blvd. Eastlake, OH 44094 216-942-9191 Robert Amos, pres.	North Park Reclamation Clay Center (92)	Lake	clay	810	810	Lke-M	IM-1059

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Mohican Organic Products, Inc. Rte. 1, 47 Milligan Rd. Lucas, OH 44843 419-892-2212 Farley & Joyce Amos, owners	Mohican Pit (1)	Ashland	peat			Ald-13	
Moore's Excavating Co. 2222 N. State Rte. 68 Urbana, OH 43078 513-653-6288 Ralph Moore, owner	Moore's Excavating Co. (51) (153)	Champaign	sand & gravel clay	112,074	112,074	Cpn-20	IM-482
	Moore's Excavating Co. (620)	Clark	sand & gravel	11,174	11,174	Ck-29	IM-1233
Morrow Gravel Co. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Morrow Gravel Co. (63) Morrow Gravel Co. (501) Morrow Gravel Co. (502) Morrow Gravel Co. (503)	Mercer Warren Warren Warren	limestone sand & gravel sand & gravel sand & gravel	142,545 4,500 30,611	142,545 4,500 30,611	Mr-2 Wan-M Wan-M1 Wan-M2	IM-430 IM-728, IM-1065 IM-1051 IM-837
Morton International, Inc. Morton Salt Division P.O. Box 428 Grand River, OH 44045-0428 216-639-4243 Richard L. Wilson, plant mgr.	Fairport Mine (2)	Lake	salt	1,343,859	1,409,482	Lke-6	
Morton International, Inc. Morton Salt Division 151 S. Industrial St. P.O. Box 337 Rittman, OH 44270-0337 216-925-3015 Jay Stewart, pres.	Morton Salt Well Field (5)	Wayne	salt	485,857	506,899	We-9129	
Muskingum River Gravel Co. P.O. Box 1585 Zanesville, OH 43702-1585 614-453-0624 Larry E. Young, v. pres.	Muskingum River Gravel Co. (152) Muskingum River Gravel Co. (247) Muskingum River Gravel Co. (448) Muskingum River Gravel Co. (452) Plant #2 (367)	Hocking Muskingum Muskingum Ross Washington	sand & gravel sand & gravel sand & gravel sand & gravel sand & gravel	85,000 100,000 100,000 200,000 12,750	85,000 100,000 100,000 200,000 12,750	Hg-301 Mum-228 Mum-262 Rs-M Wn-38	IM-458 IM-421 IM-422 IM-114 IM-701
National Aggregates, Inc. P.O. Box 340 Malvern, OH 44644 330-866-1999 Bill Sheckler, pres.	National Aggregates, Inc. (610)	Stark	sand & gravel	256,928	256,928	Sk-1017	IM-1186
National Lime & Stone Co. P.O. Box 120 Findlay, OH 45839-0120 419-422-4341 R. W. Kruse, v. pres.	Lima Plant (5) Buckland Plant (11) Wapakoneta Plant (24) Bucyrus Plant (18) Delaware Plant (21) Findlay Plant (149) Marion Plant (60) Carey Plant (134) Upper Sandusky Plant (380) Upper Sandusky Plant (381)	Allen Auglaize Auglaize Crawford Delaware Hancock Marion Wyandot Wyandot Wyandot	limestone limestone sand & gravel limestone limestone limestone limestone limestone sand & gravel sand & gravel	955,099 489,015 210,463 1,815,371 2,582,394 1,172,100 779,923 2,925,984 266,538	871,424 540,445 195,136 1,861,236 2,527,157 1,225,333 730,160 2,948,451 206,599	An-3 Ae-10 Ae-30 Cd-1 Del-5 Hk-7 Mn-3 Wt-1 Wt-15 Wt-18 ⁷	IM-484 IM-486 IM-598 IM-404 IM-207 IM-1002 IM-168 IM-405 IM-376 IM-551
Neer's Sand & Gravel 4859 Twp. Rd. 45 Bellefontaine, OH 43311 513-585-6733 Arden J. Neer, Sr., owner	Neer's Sand & Gravel (189)	Logan	sand & gravel	118,531	123,987	Lgn-6	IM-459
Nelson Sand & Gravel, Inc. P.O. Box 466 Kingsville, OH 44048 216-224-0198 Thomas H. Nelson, pres.	Nelson Sand & Gravel, Inc. (14) Nelson Sand & Gravel, Inc. (510)	Ashtabula Ashtabula	sand & gravel sand & gravel	35,610	35,610	Asa-12 Asa-N	IM-1130 IM-1109
Nelson Stark Co. 7685 Fields-Ertel Rd. Cincinnati, OH 45247 513-489-0871 Mark Stark, pres.	Nelson Stark Gravel Pit (520)	Hamilton	sand & gravel	10,381	10,381	Hmn-C	IM-1132
Newbury Sand & Gravel 15365 Ravenna Rd. Burton, OH 44021 216-834-8500 Blaine M. Kaufman, owner	Newbury Sand & Gravel (517) (50)	Geauga	sand & gravel sandstone	16,840 22,562	16,840 22,562	Gea-N	IM-1123

⁷Information for Wt-18 is reported under Wt-15.

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
New Carlisle Sand & Gravel Co. 6090 S. Scarff Rd. New Carlisle, OH 45344 513-845-0696 W. Lee Upton, owner	New Carlisle Sand & Gravel Co. (217)	Miami	sand & gravel	172	172	Mi-501	
Newton Asphalt Paving, Inc. P.O. Box 86 Strasburg, OH 44680 330-878-5648 G. A. Gessner & C. T. Newton, partners	516 (428)	Tuscarawas	sand & gravel	64,433	64,433	Ts-2001	IM-1004
Nick's Trucking 14228 Madison Rd. Middlefield, OH 44062 216-632-1949 Nick R. Loze, owner	Nick's Trucking (584)	Trumbull	sand & gravel			TL-16	IM-1158
Northern Ohio Materials, Inc. 8300 State Rte. 14 Streetsboro, OH 44241 330-626-5577 Roger Schuck, operations mgr.	Northern Ohio Materials, Inc. (273) Northern Ohio Materials, Inc. (500)	Portage Tuscarawas	sand & gravel sand & gravel	225,004 171,321	225,004 171,321	Pe-85 Ts-2018	IM-700 IM-1076
Northern Ohio Paving Co. 1749 Highland Rd. Twinsburg, OH 44087 216-425-7861 Walter H. Edwards, pres.	Allied Plant #3 (316)	Stark	sand & gravel	316,554	316,554	Sk-N	IM-156
North Shore Stone Quarries, Inc. 72 Fernhill Ave. Columbus, OH 43228 614-878-0620 Clifford Hammond, pres.	North Shore Stone Quarries, Inc. (109)	Seneca	limestone	5,171	5,171	Sa-8	IM-313
Northwood Stone & Asphalt Co. 1558 County Rd. 105 Belle Center, OH 43310 513-464-3833 Mark Shelly, pres.	Northwood Stone & Asphalt Co. (51)	Logan	limestone	266,470	274,340	Lgn-2	IM-494
Northwood Stone & Asphalt Co. 20620 Spangler Rd. West Mansfield, OH 43358 513-464-3833 Mark Shelly, pres.	Rockhold Division (119)	Union	limestone	166,533	147,708	Un-1	IM-208
Nutter Bros. Coal Co., Inc. P.O. Box 248 New Straitsville, OH 43766 614-394-2681 James P. Nutter, pres.	Nutter Bros. Coal Co., Inc. (98)	Perry	clay			Py-N	IM-1097
NuWay Services, Inc. 3441 Sportsman Club Rd. Johnstown, OH 43031 614-587-2451 George McInturff, pres.	Toney Mine (172)	Licking	clay	38,943	38,943	Lg-505	IM-1248
OHM Remediation Services Corp. 16406 U.S. Route 224 E Findlay, OH 45840 419-425-6047 Daniel P. Buettin, v. pres.	OHM Remediation Services Corp. (169)	Coshocton	clay			Cn-OHM	IM-1247
Carl E. Oeder & Sons Sand & Gravel 3890 Turtlecreek Rd. Lebanon, OH 45036 513-494-1238 Carl E. Oeder, pres.	Oeder Pit (352)	Warren	sand & gravel	489,276	489,276	Wan-41	IM-629
Oglebay Norton Industrial Sands, Inc. 975 Linden Ave. P.O. Box 4477 Zanesville, OH 43702 614-452-2775 Mark Juszli, pres.	Millwood (644) (24) Glass Rock (48) (137)	Knox Perry	sand & gravel sandstone sandstone clay	15,662 167,258 367,458	15,662 167,258 367,458	Kx-1 Py-344	IM-269 IM-1014

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Ohio Asphaltic Limestone Corp. 8591 Mad River Rd. Hillsboro, OH 45133 513-364-2191 W. C. Mason, pres.	Ohio Asphaltic Limestone Corp. (42)	Highland	limestone	405,615	405,615	Hd-3	IM-253
Ohio Bulk Transfer Co. 3203 Harvard Rd. Newburgh Heights, OH 44105 216-883-7200 James Palladino, pres.	Ohio Bulk Transfer Co. (68)	Summit	sandstone			St-60	IM-1206
Ohio-West Virginia Excavation 56929 Ferry Landing Rd. Dilles Bottom, OH 43947 614-676-7464 Dennis Hendershot, pres.	OH-WV Excavation (424)	Monroe	sand & gravel	7,080	7,080	Me-508	IM-1000
Oldtown Coal Co. 4412 Pleasant Valley Rd. SE Dennison, OH 44621 614-922-3942 Mary J. Brown, pres.	CW/MWCD Clay Project (183)	Stark	clay	23,588	23,588	Sk-O	IM-1276
Olen Corp. 4755 S. High St. Columbus, OH 43207-4028 614-491-1515 Wayne Rayburn, pres.	Stewart Plant #4 (459) Hilliard Plant #1 (102) (154) Columbus Plant #3 (465) Fredericktown Plant #2 (161) Olen Corp. (555)	Athens Franklin Franklin Knox Knox	sand & gravel sand & gravel limestone sand & gravel sand & gravel sand & gravel	39,103 42,289 459,652 1,628,506 452,515	46,074 36,986 368,758 1,710,184 430,655	As-W Fn-43 Fn-58 Kx-16 Kx-OC	IM-979 IM-188 IM-1023 IM-793 IM-930
Oneida Sand & Gravel, Inc. 8000 Blade Rd. NW Malvern, OH 44644 330-343-6831 Louis H. Smitley, pres.	Oneida Sand & Gravel, Inc. (47)	Carroll	sand & gravel	150,748	117,177	Cl-204	IM-554
Osborne Materials Co. P.O. Box 248 Grand River, OH 44045-0248 216-357-5562 Harold T. Larned, pres.	Osborne Materials Co. (2)	Lake Erie	sand & gravel (dredged)	99,208	99,208	Lke-D	
Oster Sand & Gravel, Inc. 5947 Whippel Ave. NW North Canton, OH 44720-7692 330-494-5472 Marlene K. Oster, pres.	Massillon Plant (326) Mudbrook Plant (581) Bolivar Pit (586)	Stark Stark Tuscarawas	sand & gravel sand & gravel sand & gravel	532,412 48,261 227,087	532,412 48,261 227,087	Sk-165 Sk-R Ts-2036	IM-192, IM-781 IM-697 IM-1155
Ours Sand & Gravel 20444 State Rte. 7 S. Crown City, OH 45623 614-256-1378 Donald & Gloria Ours, owners	Ours Sand & Gravel (466)	Gallia	sand & gravel	9,380	9,380	Ga-O	IM-1028
Oxford Mining Co., Inc. P.O. Box 427 Coshocton, OH 43812 614-623-0015 Charles C. Ungurean, pres.	Heritage (187)	Coshocton	clay shale	153,237	153,237	Cn-O	IM-1256
P & H Construction 3745 S. Third St. Ironton, OH 45638 614-533-3030 Paul Popov, pres.	P & H Mine (182)	Lawrence	shale	2,500	2,500	Le-PH	IM-1268
R. H. Penick Co. 1504 Blue Jay Rd. Heath, OH 43056 614-323-3040 R. H. Penick, owner	R. H. Penick Co. (3)	Licking	salt	14,114	14,114	Lg-45	
Penn Eagle Coal Corp. P.O. Box 151 Wellsburg, WV 26070 304-737-0696 Alan K. Worthley, pres.	B & S Mine (554) (59) (133)	Jefferson	sand & gravel sandstone clay			Jfn-PE	IM-1162

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Penry Stone Co. P.O. Box 176 Radnor, OH 43066 614-595-3373 Walter Penry, owner	Radnor Plant (23) Prospect Plant (198)	Delaware Marion	limestone sand & gravel	459,873 85,942	459,873 85,942	Del-2 Mn-4	IM-299 IM-290
Phillips Sand & Gravel U.S. Rte. 35 Box 187 Alpha, OH 45301 513-426-5461 George E. Phillips, pres.	Phillips Sand & Gravel (115)	Greene	sand & gravel	435,826	435,826	Ge-36	IM-305
Piketon Sand & Gravel 4281 Roush Rd. Hillsboro, OH 45133 513-364-2311 John B. Patton, pres.	Piketon (255)	Pike	sand & gravel	492,226	514,909	Pke-24	IM-222
Piqua Materials, Inc. Piqua Minerals Division 1750 W. Statler Rd. Piqua, OH 45356 513-773-4824 Albert R. Donovan, mgr.	Piqua Minerals Division (64)	Miami	limestone	442,900	529,800	Mi-1	IM-382
Pleasant Valley Limestone 12321 Ideal Rd. Byesville, OH 43723 614-685-6726 George V. Thompson, pres.	Pleasant Valley Limestone (185)	Muskingum	limestone	59,424	59,424	Mum-907	IM-1200
C. F. Poeppelman, Inc. 4755 N. State Rte. 721 Bradford, OH 45308 513-448-2191 James Poeppelman, pres.	C. F. Poeppelman, Inc. (67)	Miami	limestone	433,507	433,507	Mi-10	IM-335
Portage Lakes Sand & Gravel Co. 2800 N. Turkeyfoot Rd. Akron, OH 44319 330-644-2285 Douglas K. Rennick, pres.	Portage Lakes Sand & Gravel Co. (384)	Summit	sand & gravel	32,967	32,967	St-53	IM-874
Powell Gravel & Topsoil, Inc. P.O. Box 214 Harrison, OH 45030 513-353-1400 Ron Powell, pres.	Powell Gravel & Topsoil, Inc. (134)	Hamilton	sand & gravel	419,044	419,044	Hmn-71	IM-771
Prairie Lane Sand & Gravel Co. 4401 Prairie Lane Rd. P.O. Box 233 Wooster, OH 44691 330-262-6821 Ralph W. Miller, Jr., pres.	Prairie Lane Sand & Gravel Co. (372) (179)	Wayne	sand & gravel shale	167,437 1,924	167,437 1,924	We-11	IM-547
Precision Aggregate, Inc. 12205 E. Gypsy Lane Rd. Bowling Green, OH 43402 419-352-4681 Randy G. Schmeltz, pres.	Precision Aggregate II (183) Precision Aggregate I (379)	Wood Wyandot	limestone sand & gravel	163,803 127,843	163,803 127,843	Wd-14 Wt-4	IM-1157 IM-520
Premier Services Corp. 901 E. Eighth Ave. King of Prussia, PA 19406 215-337-1100 P.E. Kinsey, pres.	Premier Services Corp. (106)	Seneca	limestone	146,070	146,070	Sa-2	IM-352
Putnam Stone Co. R.R. 1, 7053 Road M Ottawa, OH 45875-9754 419-523-6004 Tony Shroyer, pres.	Putnam Stone Co. (98)	Putnam	limestone	265,253	260,921	Pm-2	IM-570
Quality Ready Mix, Inc. R.R. 5 Wapakoneta, OH 45895 419-738-2817 Robert E. Hirschfeld, pres.	Quality Pit (25)	Auglaize	sand & gravel	46,906	46,906	Ae-16	IM-595

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Quality Stone Co. 8751 N. State Rte. 7 Cheshire, OH 45620 614-992-6637 Jay Hall, Jr., pres.	Quality Stone Co. (148) Route 32 (182)	Vinton Vinton	limestone limestone	534,126	534,126	Vn-190 Vn-193	D-0761
Quarry Trails 7500 S. Cassel Rd. P.O. Box 520 Vandalia, OH 45377 513-667-4431 John E. Moyer, Sr., pres.	Quarry Trails (178)	Montgomery	limestone			My-Q	IM-860
R & S, Inc. 7522 Wales Rd. NW North Canton, OH 44720 330-499-1024 Gary R. Ross, pres.	Copley Sand & Gravel (427)	Summit	sand & gravel			St-54	IM-934
Rack Sand, Inc. 5175 Este Ave. Cincinnati, OH 45232 513-242-5052 Roy Schweitzer, owner	Rack Sand, Inc. (139)	Hamilton	sand & gravel	53,721	53,721	Hmn-10	IM-226
Rainbow Sand & Gravel, Inc. 9500 Elliman Rd. Mantua, OH 44255 216-562-4701 Bernard Udelson & Jeremy Samson, owners	Rainbow Sand & Gravel, Inc. (280)	Portage	sand & gravel			Pe-64	IM-1017
John P. Raisch, Inc. P.O. Box 93 Miamisburg, OH 45342 513-866-3094 John P. Raisch, owner	John P. Raisch, Inc. (562)	Montgomery	sand & gravel	7,750	7,750	My-R	IM-539
Rash Energy, Inc. 3114 U.S. Route 62 Dundee, OH 44624 330-359-5364 Freeman Mullet, pres.	Rash Energy, Inc. (64) (144) (144)	Wayne	sandstone clay shale	48,000	48,000	We-26	IM-690, IM-1210
Red Brush Peat Co. 6945 Red Brush Rd. Ravenna, OH 44326 330-297-0923 Barbara H. Linger, owner	Red Brush Peat Co. (482) (116) (9)	Portage	sand & gravel clay peat	1,512 717 10,614	1,512 717 10,614	Pe-61	IM-1064
Red Hill Farm 71963 Lodge Rd. Freeport, OH 43973 614-489-5435 Thomas A. Mizer, mgr.	Red Hill Farm (189)	Guernsey	limestone			Gy-326	IM-1244
Redland Ohio, Inc. 128 E. Main St. Woodville, OH 43469 419-849-2321 Gary Zagar, operations mgr.	Millersville Plant (103) Woodville Plant (104)	Sandusky Sandusky	limestone limestone	1,472,083	1,667,681	Sy-4 ^a Sy-3	IM-381 IM-282
Richards & Son, Inc. 49947 State Rte. 338 Racine, OH 45771 614-247-2311 Dennis R. Taylor, v. pres.	Richards & Son, Inc. (212)	Meigs	sand & gravel	858,215	858,215	Ms-298	IM-32
Richards Service Garage 2170 Wilberforce-Clifton Rd. Xenia, OH 45385 513-372-8263 Roger Richards, owner	Richards Service Garage (547)	Greene	sand & gravel			Ge-R	IM-829
Richland Moulded Brick Co. 1000 Richland Shale Rd. P.O. Box 1711 Mansfield, OH 44901 419-524-0000 Dudley P. Frame, Jr., pres.	Richland Moulded Brick Co. (114)	Richland	shale	8,800	8,800	Rd-R	IM-1035

^aInformation for Sy-4 is reported under Sy-3.

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Ridge Township Quarry 16905 Middlepoint Rd. Van Wert, OH 45891 419-238-2533 Jenny Lautenschleger, foreman	Ridge Township Quarry (122)	Van Wert	limestone	61,690	61,690	Vt-7	IM-642
Ries Sand & Gravel 169 State Rte. 95 Jeromesville, OH 44840 419-368-7833 Robert Ries, owner	Ries Sand & Gravel (6)	Ashland	sand & gravel	1,102	1,102	Ald-9	IM-745
Riverside Sand & Gravel Co., Inc. P.O. Box 324 Tallmadge, OH 44278-0324 330-673-2021 Albert H. Acken, Jr., pres.	Riverside (333) (49)	Summit	sand & gravel sandstone	38,681 1,784	38,681 1,784	St-24	IM-239
Gary Roberts Excavating 570 Derby Downs Rd. Newark, OH 43055 614-763-3206 Gary L. Roberts, owner	Gary Roberts Excavating (419)	Licking	sand & gravel	460	460	Lg-504	IM-991
Rogers Group, Inc. dba Norwalk Sand & Gravel P.O. Box 338 Sandusky, OH 44871-0338 419-483-4390 Frank Warren, CEO	Norwalk Sand & Gravel (157)	Huron	sand & gravel	353,811	353,811	Hrn-1	IM-550
Rogers Group, Inc. dba Sandusky Crushed Stone Co. P.O. Box 338 Sandusky, OH 44871-0338 419-625-8493 Frank Warren, CEO	Parkertown Quarry (25)	Erie	limestone	4,124,536	4,124,536	Ee-11	IM-263
Jim Romig Excavating 8084 Dawn Rd. Sherrodsville, OH 44675 614-269-1225 James Romig, owner	Miller Pit (153)	Coshocton	limestone	3,120	3,120	Cn-A	IM-1011
Ross County Gravel Co. P.O. Box 158 Sabina, OH 45169-0158 513-584-2486 Craig Beam, pres.	Ross County Gravel Co. (530)	Ross	sand & gravel	143,742	143,742	Rs-R	IM-1143
Ross County Redi-Mix Co., Inc. 689 Marietta Rd. Chillicothe, OH 45601 614-775-4466 Todd Wrightsel, v. pres.	Ross County Redi-Mix Co., Inc. (574)	Ross	sand & gravel			Rs-RC	IM-925
Rubber City Sand & Gravel Co. P.O. Box 106 Uniontown, OH 44685 216-699-3311 William H. Leach, Sr., owner	Rubber City Sand & Gravel Co. (334)	Summit	sand & gravel	128,824	128,824	St-9	IM-167
Rubel Quarry, Inc. 35479 State Rte. 78 Lewisville, OH 43754 614-567-3217 Randy Rubel, pres.	Rubel Quarry, Inc. (164)	Monroe	limestone	16,322	16,322	Me-509	IM-1094
Rumpke Mountain Mining Co. 10795 Hughes Rd. Cincinnati, OH 45251 513-851-0122 William J. Rumpke, pres.	Rumpke Mountain Mining Co. (190)	Hamilton	limestone shale	73,537 671,829	84,862 671,829	Hmn-72	IM-1264
Rupp Construction, Inc. 18228 Fulton Rd. Marshallville, OH 44645 330-855-2781 J. P. Radabaugh, pres.	Rupp Construction, Inc. (373)	Wayne	sand & gravel	385,370	385,370	We-7	IM-471

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
S & S Aggregate, Inc. P.O. Box 1585 Zanesville, OH 43702-1585 614-453-0624 Larry E. Young, v. pres.	Plant #1 (101) Twin Lakes Sand, Inc. (281) Twin Lakes Sand, Inc. (282) Twin Lakes Sand, Inc. (336)	Franklin Portage Portage Summit	sand & gravel sand & gravel sand & gravel sand & gravel	125,000 50,000 50,000 105,000	125,000 50,000 50,000 105,000	Fn-24 Pe-59 Pe-67 St-44	IM-266 IM-210 IM-202 IM-178
S & S Transport, Inc. 6710 County Rd. 624 Millersburg, OH 44654 330-674-0051 Phil Schlabach, owner	Patteson (470)	Holmes	sand & gravel			Hs-J	IM-1043
S & W Cement Construction, Inc. 2419 U.S. Rte. 68 N Yellow Springs, OH 45387 513-374-1234 Jo Ann Weddle, owner	S & W (549)	Greene	sand & gravel	19,800	19,800	Ge-W	IM-645
Salt Creek Materials, Inc. 880 Spry Rd. Zanesville, OH 43701 614-872-3217 Charles O. Lighthizer, owner	Salt Creek Materials, Inc. (248) Salt Creek Materials, Inc. (144)	Muskingum Muskingum	sand & gravel limestone	5,926 22,445	0 22,445	Mum-216 Mum-269	IM-689 IM-1009
Samco, Inc. 10217 State Rte. 534 N Middlefield, OH 44062 216-272-5158 J. Jim Holmes, pres.	Springbrook (340) (184)	Trumbull	sand & gravel clay	389,453 338	389,453 338	Tl-12	IM-131
Sandkuhl Clay Works, Inc. 05536 Kossuth-Amanda Rd. Spencerville, OH 45887 419-647-2905 Leslie E. Sandkuhl, pres.	Sandkuhl Clay Works, Inc. (2)	Auglaize	clay	4,713	4,713	Ae-7	
Sandman Sand & Stone, Inc. 8840 Geiser Rd. P.O. Box 938 Holland, OH 43528 419-875-1666 Robert Parker, pres.	County Road (542) Archbold-Whitehouse Pit (556)	Fulton Lucas	sand & gravel sand & gravel	30,649 113,863	30,649 113,863	Ftn-S Ls-MH	IM-1146 IM-1144
Sands Hill Coal Co., Inc. P.O. Box 470 Wellston, OH 45692 614-384-4211 Bonny A. Huffman, pres.	Sands Hill Strip #4 (158)	Jackson	limestone	474,646	474,646	Jkn-SH	IM-1068
Sant Sand & Gravel, Inc. P.O. Box 750 Mt. Vernon, OH 43050 614-397-0000 John Ellis, pres.	Sant Sand & Gravel, Inc. (163)	Knox	sand & gravel	171,827	225,370	Kx-3	IM-300
Michael B. Sayers P.O. Box 515 Put-in-Bay, OH 43456-0515 614-666-7652 Michael B. Sayers, owner	Sayers Pit (516)	Delaware	sand & gravel			Del-S	IM-1118
Guy Schieve P.O. Box 83 Birmingham, OH 44816 216-965-8792 Guy Schieve, owner	Schieve Pit (191)	Lorain	sand & gravel	9,800	9,800	Ln-12	IM-731
Schilling Contractors, Inc. 964 Private Dr. Ironton, OH 45638 614-532-8463 Earl P. Schilling, pres.	Schilling Contractors, Inc. (305)	Scioto	sand & gravel			So-78	
Schloss Materials Co. 13700 McCracken Rd. Cleveland, OH 44125 216-587-4900 Raymond E. Schloss, Sr., pres.	Schloss Materials Co. (274) Schloss Materials Co. (569)	Portage Portage	sand & gravel sand & gravel	118,653	118,653	Pe-60 Pe-SM	IM-78 IM-499

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Scioto Sand & Gravel P.O. Box 31 Marion, OH 43301-0031 614-494-2177 Gerald E. Fleming, pres.	Scioto Sand & Gravel (197)	Marion	sand & gravel	2,648	2,648	Mn-16	IM-171
Scioto Valley Resources P.O. Box 760 Lucasville, OH 45648 513-364-2311 John B. Patton, pres.	Scioto Valley Resources (395)	Scioto	sand & gravel	246,746	264,566	So-100	IM-950
Seaway Sand & Stone, Inc. 2190 Whitehouse-Spencer Rd. Swanton, OH 43558 419-865-5751 Mack S. Moon, pres.	Seaway Sand & Stone, Inc. (188) (195) (156)	Lucas	limestone sand & gravel clay	137,591 16,278	137,591 16,278	Ls-13	IM-492
Seville Sand & Gravel, Inc. 8215 Seville Rd. Seville, OH 44273 330-948-1812 George Cross, pres.	Seville Sand & Gravel, Inc. (206)	Medina	sand & gravel	435,829	435,829	Ma-22	IM-425, IM-650, IM-651
Shamrock Materials, Inc. 11641 Mosteller Rd. Cincinnati, OH 45241 513-771-0820 James P. Jurgensen, pres.	Shamrock Materials, Inc. (38)	Butler	sand & gravel	762,612	762,612	Br-52	IM-814
Sharon Stone Co. P.O. Box 100 Dexter City, OH 45727 614-783-3575 John P. McCort, pres.	Sharon Stone Co. (167)	Noble	limestone	134,675	134,675	Ne-S	IM-913
R. W. Sidley, Inc. 615 W. Main St. Conneaut, OH 44030 216-352-9343 Robert C. Sidley, pres.	Conneaut Pit (15)	Ashtabula	sand & gravel	84,990	84,990	Asa-15	IM-783
R. W. Sidley, Inc. 7123 Madison Rd. Thompson, OH 44086 216-298-3232 Robert C. Sidley, pres.	Thompson Pit (18) Hambden Quarry (58) Painesville Pit (166)	Geauga Geauga Lake	sandstone sandstone sand & gravel	400 180,670 31,635	400 220,000 31,635	Gea-1 Gea-S Lke-7	IM-163 IM-161 IM-162
Sidney Sand & Gravel Co. P.O. Box 379 Sidney, OH 45365 513-492-3125 Thomas P. Milligan, pres.	Milligan & Milligan-Washington Twp. Pit (312) Rock Run Quarry (111) Wagner Pit (493) Staley Pit (577)	Shelby Shelby Shelby Shelby	sand & gravel limestone sand & gravel sand & gravel	151,313 5,476 876 3,266	151,313 5,476 876 3,266	Shy-13 Shy-16 Shy-S Shy-SS	IM-412 IM-411 IM-1005 IM-438
Sidwell Bros., Inc. 4620 Limestone Valley Rd. Zanesville, OH 43701 614-849-2392 Dale R. Sidwell, pres.	Sidwell Quarry (78) Sidwell Bros., Inc. (186)	Muskingum Muskingum	limestone limestone	551,937 140,579	551,937 140,579	Mum-104 Mum-SB	IM-277 IM-1212
Silchuk Gravel Co. 2470 Wall Rd. Rittman, OH 44270 330-336-8796 Junior F. Silchuk, owner	Silchuk Gravel Co. (208)	Medina	sand & gravel			Ma-16	
Simak Trucking, Inc. 3052 E. Center St. P.O. Box 599 North Kingsville, OH 44068 216-224-1992 Joseph E. Simak, pres.	Simak Trucking, Inc. (413) (166)	Ashtabula	sand & gravel clay	55,059 2,880	55,059 2,880	Asa-18	IM-949
Slankard Dozer Service, Inc. 8241 Fort Laurens Rd. NW Strasburg, OH 44680 330-878-5883 Jerry L. Slankard, pres.	Beach City Pit (54)	Tuscarawas	sandstone	2,200	2,200	Ts-2032	IM-1141

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Small's Sand & Gravel, Inc. P.O. Box 617 Gambier, OH 43022 614-427-4096 Michael Small, pres.	Killduff Rd. (165) Zion Rd. (408)	Knox Knox	sand & gravel sand & gravel	239,718 325	239,718 325	Kx-15 Kx-17	IM-967 IM-968
Sober Sand & Gravel Co. 2898 Tallmadge Rd. Ravenna, OH 44266 330-325-7013 T. L. Sober, agent	Sober Sand & Gravel Co. (275)	Portage	sand & gravel	1,800	1,800	Pe-18	IM-193
Soehnen Bros. Sand & Gravel, Inc. 10449 Soehnen Rd. NW Beach City, OH 44608 330-756-2244 Francis L. Soehnen, pres.	Soehnen Bros. Sand & Gravel, Inc. (343)	Tuscarawas	sand & gravel	82,487	88,860	Ts-1826	IM-88
Solomon's Mines, Inc. 7732 Salem-Unity Rd. Salem, OH 44460 330-332-0123 Jack Solomon, owner	Solomon's Mines, Inc. (636) (72) Solomon's Mines, Inc. (196) (135)	Columbiana Mahoning	sand & gravel sandstone sand & gravel clay	8,233 84,089 3,032	8,233 84,089 3,032	Ca-S Mg-632	IM-1258 IM-808
Solon Excavators Sand & Gravel, Inc. 10925 Mantua Center Rd. P.O. Box Q Mantua, OH 44255 216-543-9347 Howard Sargent, pres.	May (623) Alger (276) Woodward (486)	Geauga Portage Portage	sand & gravel sand & gravel sand & gravel	61,645 42,405 163,743	61,645 42,405 163,743	Gea-43 Pe-36 Pe-SE	IM-1230 IM-90 IM-1096
Soltis Sand & Gravel 19102 Nelson Ledge Rd. Garrettsville, OH 44231 216-548-5813 James W. Soltis, owner	Soltis Sand & Gravel (415) (86)	Geauga	sand & gravel clay	5,707 4,862	6,400 4,862	Gea-9	IM-132
South Central Sand & Gravel 340 Bailey Chapel Rd. Piketon, OH 45661 614-289-2629 James Nier, pres.	South Central Sand & Gravel (254)	Pike	sand & gravel	16,827	16,827	Pke-30	IM-786
Southern Ohio Aggregates, Inc. 11641 Mosteller Rd. Cincinnati, OH 43113 513-771-0820 James P. Jurgensen, pres.	Southern Ohio Aggregates, Inc. (460) Southern Ohio Aggregates, Inc. (551) Southern Ohio Aggregates, Inc. (552) Southern Ohio Aggregates, Inc. (284)	Butler Hamilton Hamilton Preble	sand & gravel sand & gravel sand & gravel sand & gravel	2,000 2,000 2,000 3,000	2,000 2,000 2,000 3,000	Br-S Hmn-S Hmn-SO Pre-7	IM-1053 IM-746 IM-720 IM-306
Southern Silica, Inc. P.O. Box 22 Richmond Dale, OH 45673 614-884-4721 George W. Cannon, Jr., pres.	Southern Silica, Inc. (34)	Ross	sandstone	69,388	69,388	Rs-16	IM-172
Southwestern Portland Cement Co. Eastern Division 506 E. Xenia Rd. P.O. Box 191 Fairborn, OH 45324 800-762-0040 Clarence Comer, pres.	A-Tract (33) Miller-Trollinger (10) Batdorf-Feirstine-Schneider (34) Harner (90) G-Tract (72)	Clark, Greene Greene Greene Greene Montgomery	limestone clay limestone clay limestone	95,240 727,517 22,804	95,240 859,502 22,804	Ge-1 Ge-8 Ge-9 Ge-44 My-58	IM-393 IM-364 IM-364 IM-330
Speer Brothers, Inc. 3812 Old Railroad Rd. Sandusky, OH 44870 419-626-5291 David Speer, pres.	101 Location (89)	Erie	clay			Ee-32	IM-1077
Sphagnum Moss Peat Farm 9904 State Route 736 Plain City, OH 43064 513-597-7251 Mike Poling, owner	Sphagnum Moss Peat Farm (2)	Champaign	peat	5,500	5,500	Cpn-9	
Spring Creek Corp. 4723 Hardin-Wapak Rd. Sidney, OH 45365 513-492-4186 Nelson E. Barhorst, pres.	Pence Deposit (314) River Quarry (112) Jones Deposit (315) "H" Mine (494)	Shelby Shelby Shelby Shelby	sand & gravel limestone sand & gravel sand & gravel	202,848 332,971 202,848	202,848 332,971 202,848	Shy-11 Shy-15 Shy-18 Shy-SC	IM-743 IM-387 IM-388 IM-1018

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Spring Industries, Inc. P.O. Box 507 New Philadelphia, OH 44663 216-339-3585 Glenn Straub, pres.	Bolivar Pit (582) Midvale Pit (344) Hardy Salt (588)	Stark Tuscarawas Tuscarawas	sand & gravel sand & gravel sand & gravel	82,152	245,300	Sk-SI Ts-1771 Ts-SI	IM-588 IM-77 IM-569
Spring Valley Investments, Inc. 2800 N. Turkeyfoot Rd. Akron, OH 44319 330-644-2285 Douglas K. Rennick, pres.	Spring Valley Investments, Inc. (335)	Summit	sand & gravel			St-26	IM-803
City of Springfield 201 Eagle City Rd. Springfield, OH 45502 513-390-7210 Robert Chaffin, Jr., water plant supt.	City of Springfield (437)	Clark	sand & gravel			Ck-7	IM-449
Springfield Sand & Gravel Co. 4301 S. Charleston Pike Springfield, OH 45502 513-325-7386 Tracy Miller, supt.	Springfield Sand & Gravel Co. (58)	Clark	sand & gravel	515,900	515,900	Ck-25	IM-358
Standard Lafarge 6715 Tippecanoe Rd. Bldg. C Canfield, OH 44406 330-533-3338 Jeffrey A. Lewis, v. pres.	Marblehead (84) Shalersville (277) Shalersville Portable (278) Mantua (487) Navarre (453)	Ottawa Portage Portage Portage Stark	limestone sand & gravel sand & gravel sand & gravel sand & gravel	3,891,743 864,335 11,271	3,859,878 866,000 11,271	Oa-7 Pe-68 Pe-SS1 Pe-SS2 Sk-241	IM-440 IM-1107 IM-660, IM-1124 IM-1047 IM-582
State Line Resources, Inc. Route 154 Negley, OH 44441 216-921-1950 Charles H. Muse, Jr., pres.	State Line Resources, Inc. (4) (4)	Columbiana	clay shale	27,618	27,618	Ca-505	IM-13, IM-936
Stewart & Reichman, Inc. 1866 State Rte. 416 SE Gnadenhutten, OH 44629 614-922-0050 Timothy G. Brown, pres.	Stewart & Reichman, Inc. (346)	Tuscarawas	sand & gravel	70,777	70,777	Ts-111	IM-55
Stillwater Sand & Gravel, Inc. 7850 Karns Rd. West Milton, OH 45383 513-698-3028 Ed Bohse, pres.	Stillwater Sand & Gravel, Inc. (447)	Miami	sand & gravel	226,584	226,584	Mi-504	IM-1032
Stocker Sand & Gravel Co. P.O. Box 176 Gnadenhutten, OH 44629 614-254-4635 Jeffrey Stocker, pres.	Stocker Sand & Gravel Co. (347) Stocker Sand & Gravel Co. (348)	Tuscarawas Tuscarawas	sand & gravel sand & gravel	280,908 758,760	280,908 758,760	Ts-69 Ts-125	IM-51 IM-50
Stoneco, Inc. 1345 Ford St. P.O. Box 29A Maumee, OH 43537 419-893-8731 John Bearss, pres.	Maumee Quarry (54) Celina Quarry (62) Rocky Ridge (83) Auglaize Quarry (88) Scott Quarry (121) South Montpelier (375) North Montpelier (376) Takacs Quarry (506) Lime City Quarry (131) Portage Quarry (132)	Lucas Mercer Ottawa Paulding Van Wert Williams Williams Williams Wood Wood	limestone limestone limestone limestone limestone sand & gravel sand & gravel sand & gravel limestone limestone	908,000 413,000 161,000 692,000 274,000 326,000 746,000 292,000	970,819 388,000 128,226 702,000 295,000 297,684 763,142 259,281	Ls-2 Mr-1 Oa-14 Pg-2 Vt-3 Ws-6 Ws-9 Ws-T Wd-6 Wd-11	IM-503 IM-592 IM-320 IM-481 IM-495 IM-497 IM-498 IM-1022 IM-480 IM-475
Stone Creek Brick Co. P.O. Box 116 Stone Creek, OH 43840 330-339-5511 A. C. Marsh, Jr., pres.	Stone Creek Clay Mine (67) Stone Creek Shale Pit (67)	Tuscarawas Tuscarawas	clay shale	37,318 6,605	37,318 6,605	Ts-1557 Ts-1558	IM-52 IM-52
Suever Stone Co., Inc. Bloomlock Rd. P.O. Box 10 Delphos, OH 45833 419-692-9796 Neal Lause, pres.	Suever Stone Co., Inc. (7) Delphos Quarry (123)	Allen Van Wert	limestone limestone	101,700 121,573	106,500 172,876	An-4 Vt-1	IM-491 IM-500

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Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Sugarcreek Clay & Limestone, Inc. P.O. Box 402 Sugarcreek, OH 44681 330-852-4440 Daniel O. Miller, pres.	Newcomerstown Plant (72) Winfield (190) (175)	Coshocton Tuscarawas	sand & gravel limestone clay			Cn-624 Ts-2047	IM-243 IM-1224
Summitville Tiles, Inc. P.O. Box 173 Summitville, OH 43962 330-223-1511 David Johnson, pres.	Summitville Tiles, Inc. (5) Summitville Tiles, Inc. (127)	Columbiana Columbiana	shale shale	37,413	37,413	Ca-205 Ca-989	IM-74 IM-1110
Sunrise Sand & Gravel 4872 Meade Hollow Rd. Orwell, OH 44076 216-474-0614 Kenneth, Robert, & Richard McElroy, partners	Sunrise Sand & Gravel (617)	Ashtabula	sand & gravel			Asa-21	IM-1239
Sunshine Sand Co. 8861 State Rte. 43 Kent, OH 44240 216-587-2700 Margaret A. Bova, pres.	Sunshine Sand Co. (528)	Portage	sand & gravel	3,224	3,224	Pe-SSC	IM-318
Swingle Drilling, Inc. 713 Keystone St. Crooksville, OH 43731 614-982-1302 James R. Swingle, pres.	T. G. Industries, Inc. (138)	Perry	clay			Py-S1	IM-1183
T. K. Stone Co., Inc. 2050 E. Kingscreek Rd. Urbana, OH 43078 513-653-8201 Jerry Trout, pres.	T. K. Stone Co., Inc. (619)	Champaign	sand & gravel	15,663	15,663	Cpn-25	IM-1227
T. T. & K. Construction, Inc. 32 State Route 239 Portsmouth, OH 45663 614-858-6661 Patricia Picklesimer, pres.	T. T. & K. Construction, Inc. (630)	Scioto	sand & gravel	420,000	420,000	So-102	IM-1250
Tackett Builders 906 Charleston Pike Chillicothe, OH 45601 614-772-5431 Carmel G. Tackett, owner	Tackett Pit (606) (150)	Ross	sand & gravel shale	1,840	1,840	Rs-T	IM-1189
Teague Gravel Co., Inc. 10924 Kinsman Rd. Newbury, OH 44065 216-564-5671 Donald Teague, pres.	Teague Gravel Pit (109)	Geauga	sand & gravel	71,598	71,598	Gea-35	IM-321
Thiel Construction Co. P.O. Box 225 Blakeslee, OH 43505 419-272-2712 Lee Thiel, pres.	Thiel Construction Co. (633)	Williams	sand & gravel	10,420	10,420	Ws-21	IM-1225
Don Thompson Excavating, Inc. 1471 W. Paintersville Rd. Spring Valley, OH 45370 513-862-7911 Todd Thompson, pres.	Don Thompson Excavating, Inc. (546)	Greene	sand & gravel			Ge-46	IM-1149
Tipp Stone Co., Inc. P.O. Box 367 Troy, OH 45373 513-228-8423 T. L. Eidemiller, pres.	Troy (446) Meeker (238)	Miami Montgomery	sand & gravel sand & gravel	16,468 35,073	16,468 35,073	Mi-12 My-61	IM-467 IM-468
Towne Square Products 156 E. Broadway Westerville, OH 43081 614-882-6990 Suzanne Edgar, pres.	Towne Square Products (41)	Noble	shale	1,100	1,100	Ne-66	IM-664

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Tri-County Limestone Co. 4664 Hardin-Marion Rd. N Kenton, OH 43326 419-675-7127 Norman Cochran, pres.	Tri-County Limestone Co. (61)	Marion	limestone	206,719	206,719	Mn-1	IM-250
Tri-State Asphalt Products 44 Sixteenth St. Wheeling, WV 26003 304-233-1110 Glenn Straub, pres.	Tri-State Asphalt Products (26)	Belmont	sand & gravel	164,092	169,942	Bt-74	IM-288
Trout Sand & Gravel Co. Rte. 4 Marietta, OH 45750 800-344-4948 Henry C. Trout, Jr., owner	Trout Sand & Gravel Co. (369)	Washington	sand & gravel	40,943	41,148	Wn-510	IM-25
Tuffco Sand & Gravel, Inc. P.O. Box 399 Marysville, OH 43040 614-873-3978 Charles Lewis, pres.	Tuffco Sand & Gravel, Inc. (474)	Madison	sand & gravel	99,927	100,726	Mdn-11	IM-1063
U.S. Silica Co. P.O. Box 146 Dundee, OH 44624 330-852-2012 Larry Nichols, plant supt.	Dundee Plant (42)	Tuscarawas	sandstone	17,580	19,236	Ts-1660	IM-68
Union Aggregates Co. 8328 Watkins Rd. P.O. Box 178 Ostrander, OH 43061 614-666-2013 Mark Shelly, pres.	Prospect Sand & Gravel Plant (200) Union Limestone Plant (120)	Marion Union	sand & gravel limestone	102,072 859,503	102,072 921,439	Mn-10 Un-2	IM-196 IM-236
United Builders Distributing Corp. 24371 State Rte. 30 E. Rochester, OH 44625 330-894-2394 Roger McDaniel, pres.	United Builders Distributing Corp. (464)	Columbiana	sand & gravel			Ca-U	IM-999
Valley Clay Mining Co. 26 N. Shawnee Ave. Zanesville, OH 43701 614-452-3633 Tim Kimpel, mine foreman	Kimpel #2 (122) Tague Mine (173)	Muskingum Perry	clay clay	24,104 980	24,104 980	Mum-904 Py-V	IM-1127 IM-1245
Valley Gravel Co. 4974 Shreve Rd. Wooster, OH 44691 330-264-1745 Ira & Grace Eikleberry, partners	Valley Gravel Co. (632)	Wayne	sand & gravel			We-27	IM-1242
Valley Materials Co. 4947 U.S. Rte. 23 South P.O. Box 400 Piketon, OH 45661 614-289-4400 Ralph McFann, pres.	Valley Materials Co. (252) (99)	Pike	sand & gravel clay	66,036 2,189	66,036 2,189	Pke-26	IM-142
Valley Sand & Gravel, Inc. 11840 Darby Creek Rd. Orient, OH 43146 614-877-4730 Dorothy H. Combs, owner	Valley Sand & Gravel, Inc. (627)	Pickaway	sand & gravel	4,041	4,041	Pky-C	IM-1223
John Van Horn Trucking 6945 Private Rd. 480 Loudonville, OH 44842 419-994-4222 John Van Horn, owner	John Van Horn Trucking (643) (191)	Holmes	sand & gravel shale	446	446	Hs-VH	IM-1263
A. R. & H. Van Treese Partners 6025 Lawrenceburg Rd. Harrison, OH 45030 513-367-4343 Allen Van Treese, partner	Van Treese Partners (640)	Hamilton	sand & gravel			Hmn-ARH	IM-1273

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Van Wey Sand & Gravel, Inc. 6824 Mt. Vernon Rd. NE Newark, OH 43055 614-745-5965 Richard L. Van Wey, pres.	Van Wey Sand & Gravel, Inc. (179)	Licking	sand & gravel	880,142	968,156	Lg-10	IM-217
Ralph C. Wagner & Sons 7317 Brinker St. Navarre, OH 44662 216-879-2516 Ralph C. Wagner, owner	Wagner & Sons (579)	Stark	sand & gravel	225	225	Sk-W	IM-867
Wagner Quarries Co. 4203 Milan Rd. Sandusky, OH 44870 419-625-8141 Stephen C. Lochner, pres.	Wagner Quarries Co. (26)	Erie	limestone	1,662,404	1,647,649	Ee-1	IM-310
Wallace Rd. Sand & Gravel P.O. Box 74 Petersburg, OH 44454 330-542-3696 David Sugar, pres.	Wallace Rd. Sand & Gravel (475)	Mahoning	sand & gravel			Mg-630	IM-1091
Waller Bros. Stone Co. P.O. Box 157 McDermott, OH 45652 614-259-2356 F. L. Waller, pres.	Inskeep Quarry (36) Crabtree Quarry (37) Miller Quarry (38)	Scioto Scioto Scioto	sandstone sandstone sandstone	5,408 7,260	5,408 7,260	So-48 So-76 So-82	IM-140 IM-141 IM-158
Walter's Gravel 11302 National Rd. SE Thornville, OH 43076 614-323-0783 Viva W. Fenice, owner	Walter's Gravel (180)	Licking	sand & gravel			Lg-15	
Ward Materials, Inc. 385 Oak St. R.R. 2 Leipsic, OH 45856 419-943-2450 Arnold W. Rosebrock, pres.	Ward Materials, Inc. (2)	Allen	sand & gravel	44,267	47,267	An-15	IM-721
Don Wartko Construction, Inc. 975 Tallmadge Rd. Kent, OH 44240 330-673-5252 Donald Wartko, pres.	Don Wartko Construction, Inc. (483)	Portage	sand & gravel	2,131	2,131	Pe-92	IM-522
Waste Management of Ohio, Inc. 3619 Gracemont St. SE East Sparta, OH 44626 330-874-3855 Greg A. Terwilliger, site mgr.	Countywide RDF (126) (126)	Stark	clay shale			Sk-217	D-0938
Waterloo Coal Co., Inc. P.O. Box 626 Jackson, OH 45640 614-682-7787 Phil A. Bowman, v. pres.	Bowman Strip (47) (23)	Jackson	limestone clay	222,660 2,390	222,660 2,390	Jkn-367	D-0205, D-0594, D-0892, D-0968
Watson Gravel, Inc. 2728 Hamilton-Cleves Rd. P.O. Box 277 Ross, OH 45061 513-863-0070 Ronald E. Watson, pres.	Watson Pit (44) Spring Valley (441) Harrison Pit (142) Mason Pit (363)	Butler Greene Hamilton Warren	sand & gravel sand & gravel sand & gravel sand & gravel	795,907 641,845 300	795,907 641,845 300	Br-47 Ge-38 Hmn-60 Wan-10	IM-111 IM-333 IM-761 IM-465
Weber Sand & Gravel, Inc. Rte. 2 Box 3 Bryan, OH 43506 419-636-7920 Thomas G. Weber, pres.	Weber Sand & Gravel, Inc. (377)	Williams	sand & gravel	330,612	330,612	Ws-11	IM-509, IM-661
Weidle Sand & Gravel, Inc. P.O. Box 247 Germantown, OH 45327 513-855-2228 Ronald L. Weidle, Sr., pres.	Weidle Sand & Gravel, Inc. (41) Weidle Sand & Gravel, Inc. (239) (10) Weidle Sand & Gravel, Inc. (158)	Butler Montgomery Montgomery	sand & gravel sand & gravel peat clay	201,129 257,722 250 169,564	201,129 257,722 250 169,564	Br-6 My-41 My-W	IM-177 IM-360 IM-1207

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS — Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Welch Sand & Gravel, Inc. 10217 Columbia St. Harrison, OH 45030-9751 513-353-3220 Charles H. Welch, pres.	Schlichter Pit (45) Fernald Pit (143) East Miami Pit (144)	Butler Hamilton Hamilton	sand & gravel sand & gravel sand & gravel	7,208 562,724 339,476	0 562,724 339,476	Br-38 Hmn-42 Hmn-48	IM-218 IM-823 IM-220
White Rock Quarry, L.P. Division of U.S. Aggregates, Inc. P.O. Box 119 Clay Center, OH 43408-0119 419-855-8388 Fred Jensen, plant mgr.	White Rock Quarry (82)	Ottawa	limestone	1,272,249	1,272,249	Oa-6	IM-296
Frank Widmor Coal Co., Inc. P.O. Box 176 Blaine, OH 43909 614-635-4811 Jay Van Dyne, pres.	Bellaire Stone (152) (56) (105) (105)	Belmont	limestone sandstone clay shale	225,662	225,662	Bt-1190	IM-1089
Mark Williams Blacktop Co., Inc. Rte. 4 Box 34 Marietta, OH 45750 614-373-2457 Mark Williams, owner	Williams Pit #2 (504) Williams Pit #1 (534)	Washington Washington	sand & gravel sand & gravel	37,714	37,714	Wn-1007 Wn-1009	IM-1042 IM-525
Willowbrook 39130 Brookfield St. Lisbon, OH 44432 330-424-7493 Ray Perrino, owner	Willowbrook (538)	Columbiana	sand & gravel	6,787	6,787	Ca-993	IM-1180
Gene T. Wilson P.O. Box 46 Mt. Sterling, OH 43143 614-869-4406 Gene Wilson, owner	Wilson Pit (565)	Pickaway	sand & gravel	2,232	2,232	Pky-W	IM-1176
Dennis Winzeler 03985 12/C Bryan, OH 43506 419-636-4285 Dennis & Polly Winzeler, owners	Winzeler Pit (378)	Williams	sand & gravel			Ws-14	IM-614
Wise Gravel 8535 W. Klinger Rd. Covington, OH 45318 513-473-3246 John A. Wise, owner	Wise Gravel (221)	Miami	sand & gravel	479	479	Mi-9	IM-408
Wyandot Dolomite, Inc. P.O. Box 126 Carey, OH 43316-0126 419-396-7641 David J. Wolfe, pres.	Wyandot Dolomite, Inc. (135)	Wyandot	limestone	1,518,702	1,669,590	Wt-8	IM-273
Wysong Gravel Co. P.O. Box 5 West Alexandria, OH 45381 513-962-2559 John & Carroll Wysong, owners	Camden Plant (285) West Alexandria Plant (286)	Preble Preble	sand & gravel sand & gravel	181,932 106,183	181,932 106,183	Pre-4 Pre-6	IM-477 IM-478
Wysong Stone Co. 5897 State Rte. 503 N P.O. Box 159 Lewisburg, OH 45338 513-962-2559 Gerald E. Wysong, pres.	Wysong Stone Co. (95)	Preble	limestone	90,390	90,390	Pre-5	IM-447
X L Sand & Gravel P.O. Box 157 Negley, OH 44441 330-426-9876 Robert Lansberry, pres.	X L Sand & Gravel (68)	Columbiana	sand & gravel	58,200	58,200	Ca-881	IM-611
Xenia Sand, Gravel, & Asphalt Co. 588 Dayton-Xenia Rd. Xenia, OH 45385 513-372-2978 David A. Thompson, owner	Xenia Sand, Gravel, & Asphalt Co. (117)	Greene	sand & gravel	1,974	1,974	Ge-10	IM-518

1995 OHIO ALPHABETICAL DIRECTORY OF INDUSTRIAL-MINERAL MINE OPERATORS – Continued

Name, address, telephone number, and president/owner/manager of company	Name of mine (and map location number)	County	Commodity	1995 sales (tons)	1995 production (tons)	State mine number	Mining and reclamation permit number
Young's Sand & Gravel Co. 689 State Rte. 39 W P.O. Box 117 Loudonville, OH 44842 419-994-3040 Milton Young, pres.	Sprang (8) Young's Sand & Gravel Co. (412) Young's Sand & Gravel Co. (616)	Ashland Ashland Ashland	sand & gravel sand & gravel sand & gravel	165,143 60,552 141,228	165,143 60,552 141,288	Ald-7 Ald-15 Ald-Y	IM-392 IM-944 IM-1216
Zerger's Quarry 100 N. Sycamore St. Woodsfield, OH 43793 614-472-1675 Herman Zerger, owner	Zerger's Quarry (80)	Noble	limestone	6,010	6,010	Ne-86	IM-70
Zoar Mining Co. P.O. Box 667 Zoar, OH 44697 330-223-1511 David W. Johnson, pres.	Zoar Mining Co. (71) (71)	Tuscarawas	clay shale	3,460	3,460	Ts-540	IM-28
Zollinger Sand & Gravel Co. 11899 Easton Rd. Rittman, OH 44270 330-855-2464 Carl Zollinger, pres.	Zollinger Sand & Gravel Co. (374) (193)	Wayne	sand & gravel shale	62,786 10,000	62,786 10,000	We-15	IM-398

1995 LIMESTONE/DOLOMITE COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
American Aggregates Corp.	11	8,653,344	8,146,652	Ohio Asphaltic Limestone Corp.	1	405,615	405,615
Ayers Limestone Quarry, Inc.	1	115,318	115,318	Olen Corp.	1	459,652	368,758
Barrett Paving Materials, Inc.	2	813,000	813,000	Penry Stone Co.	1	459,873	459,873
Belville Mining Co., Inc.	1	28,052	28,052	Piqua Materials, Inc.	1	442,900	529,800
Bluffton Stone Co.	1	343,726	347,073	Pleasant Valley Limestone	1	59,424	59,424
Blum Mining Co.	1	44,488	44,488	C. F. Poeppelman, Inc.	1	433,507	433,507
Central Ohio Coal Co.	1	73,038	73,038	Precision Aggregate, Inc.	1	163,803	163,803
Chesterhill Stone Co.	1	799,326	857,066	Premier Services Corp.	1	146,070	146,070
Christman Quarry	1	77,870	77,870	Putnam Stone Co.	1	265,253	260,921
Con-Ag, Inc.	1	248,603	270,453	Quality Stone Co.	1	534,126	534,126
Custar Stone Co.	1	326,597	349,905	Redland Ohio, Inc.	2	1,472,083	1,667,681
Davon, Inc.	2	2,844,428	2,844,428	Ridge Township Quarry	1	61,690	61,690
Dravo Basic Materials Co., Inc.	1	19,026	0	Rogers Group, Inc.	1	4,124,536	4,124,536
C.E. Duff & Son, Inc.	2	404,754	404,754	Jim Romig Excavating	1	3,120	3,120
E.M.A.I. Corp.	2	1,927,082	1,927,082	Rubel Quarry, Inc.	1	16,322	16,322
East Fairfield Coal Co.	1	4,025	4,025	Rumpke Mountain Mining Co.	1	73,537	84,862
R. A. Eberts Co., Inc.	1	239,973	239,973	Salt Creek Materials, Inc.	1	22,445	22,445
Erie Blacktop, Inc.	1	44,326	86,794	Sands Hill Coal Co., Inc.	1	474,646	474,646
Fox Stone Products, Inc.	1	8,000	8,000	Seaway Sand & Stone, Inc.	1	137,591	137,591
The France Stone Co.	5	3,043,535	4,056,203	Sharon Stone Co.	1	134,675	134,675
GenLime Group, L.P.	1	1,031,798	349,351	Sidney Sand & Gravel Co.	1	5,476	5,476
Gotttron Bros. Co.	1	88,341	47,050	Sidwell Bros., Inc.	2	692,516	692,516
J. M. Hamilton & Sons Co., Inc.	1	129,918	129,918	Southwestern Portland Cement Co.	2	750,321	882,306
Hardin Quarry Co., Inc.	1	169,184	169,184	Spring Creek Corp.	1	332,971	332,971
Holmes Limestone Co.	1	121,172	121,172	Standard Lafarge	1	3,891,743	3,859,878
Honey Creek Stone Co.	1	238,666	226,024	Stoneco, Inc.	7	3,486,000	3,506,468
K.C.C.I.	1	5,103	5,103	Suever Stone Co., Inc.	2	223,273	279,326
Kellstone, Inc.	1	776,198	776,198	Tri-County Limestone Co.	1	206,719	206,719
Kimble Clay & Limestone Co.	1	57,257	57,257	Union Aggregates Co.	1	859,503	921,439
King Limestone, Inc.	1	296,148	296,148	Wagner Quarries Co.	1	1,662,404	1,647,649
King Quarries, Inc.	1	7,596	7,596	Waterloo Coal Co., Inc.	1	222,660	222,660
Lafarge Corp.	1	617,896	617,896	White Rock Quarry, L.P.	1	1,272,249	1,272,249
Latham Limestone, Inc.	1	353,418	380,000	Frank Widmor Coal Co., Inc.	1	225,662	225,662
MacRitchie Materials, Inc.	1	388,800	388,800	Wyandot Dolomite, Inc.	1	1,518,702	1,669,590
Marshall Quarry, Inc.	1	8,201	8,201	Wysong Stone Co.	1	90,390	90,390
Martin Marietta Aggregates	3	764,013	742,987	Zerger's Quarry	1	6,010	6,010
Martin Marietta Magnesia Specialties, Inc.	1	2,896,800	2,896,800				
Maxville Quarries, Inc.	2	204,619	205,522	TOTAL: 81 companies	121	67,567,697	68,020,161
McCarthy Stone Quarry	1	212,041	212,041				
Melvin Stone Co.	3	2,041,459	2,041,459				
Miami River Stone Co.	1	462,486	462,486				
Morrow Gravel Co.	1	142,545	142,545				
National Lime & Stone Co.	7	10,719,886	10,704,206				
North Shore Stone Quarries, Inc.	1	5,171	5,171				
Northwood Stone & Asphalt Co.	2	433,003	422,048				

1995 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Cn-A).

LIMESTONE/DOLOMITE OPERATORS DIRECTORY

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Adams	Davon, Inc.	Plum Run	Meigs	Pebbles, Greenfield, & Tymochtee Dolomites (Silurian)	crushed stone — road construction/resurfacing	Ads-1
Allen	Bluffton Stone Co.	Bluffton Stone Co.	Richland	Tymochtee Dolomite (Silurian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing; aglime	An-1
	National Lime & Stone Co.	Lima Plant	Bath	Silurian	crushed stone — riprap, commercial building, railroad ballast	An-3
	Suever Stone Co., Inc.	Suever Stone Co., Inc.	Spencer	Tymochtee Dolomite (Silurian)	crushed stone — asphaltic concrete, road construction/resurfacing, commercial building, other; aglime	An-4
Athens	R. A. Eberts Co., Inc.	Diamond Stone	Lee		crushed stone — road construction/resurfacing	As-533
Auglaize	Con-Ag, Inc.	Con-Ag, Inc.	Noble	Cedarville Dolomite (Silurian)	crushed stone — riprap, asphaltic concrete, road construction/resurfacing; aglime	Ae-31
	National Lime & Stone Co.	Buckland Plant	Moulton	Silurian	crushed stone — riprap, commercial building, railroad ballast; aglime	Ae-10
Belmont	Ayers Limestone Quarry, Inc.	Ayers Limestone Quarry, Inc.	Pease	Permian	crushed stone — riprap, road construction/resurfacing	Bt-716
	Frank Widmor Coal Co., Inc.	Bellaire Stone	Pultney	Fishpot limestone (Pennsylvanian)	crushed stone — riprap	Bt-1190
Butler	Martin Marietta Aggregates	Ross	Ross		crushed stone — road construction/resurfacing	Br-291
Clinton	Melvin Stone Co.	Melvin Stone Co.	Richland	Guelph Dolomite (Silurian)	crushed stone — unspecified	Clh-1
Coshocton	Jim Romig Excavating	Miller Pit	White Eyes		crushed stone — riprap	Cn-A
Crawford	National Lime & Stone Co.	Bucyrus Plant	Holmes	Devonian	crushed stone — riprap, flux stone, commercial building, railroad ballast, extenders, fillers; aglime	Cd-1
	American Aggregates Corp.	Fort Jefferson #424	Butler	Cedarville Dolomite (Silurian)	crushed stone — road construction/resurfacing	Dke-1
Darke	American Aggregates Corp.	Shawnee #225	Concord	Columbus & Delaware Limestones (Devonian)	crushed stone — road construction/resurfacing	Del-4
Delaware	National Lime & Stone Co.	Delaware Stone #227	Scioto	Columbus Limestone (Devonian)	crushed stone — road construction/resurfacing	Del-3
	Penry Stone Co.	Delaware Plant	Scioto	Columbus & Delaware Limestones (Devonian)	crushed stone — riprap, commercial building, railroad ballast; aglime	Del-5
	Erie Blacktop, Inc.	Radnor Plant	Radnor	Columbus & Delaware Limestones (Devonian)	crushed stone — commercial building	Del-2
Erie	Kellstone, Inc.	Erie Blacktop Quarry	Margaretta		crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing; aglime	Ee-27
	Rogers Group, Inc. (dba Sandusky Crushed Stone Co.)	Kellstone, Inc.	Kelleys Island	Columbus Limestone (Devonian)	crushed stone — riprap, road construction/resurfacing	Ee-K
	Wagner Quarries Co.	Parkertown Quarry	Groton	Columbus & Delaware Limestones (Devonian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building, railroad ballast, landscape use, block, public works; aglime	Ee-11
Fayette	American Aggregates Corp.	Wagner Quarries Co.	Perkins	upper Columbus & Delaware Limestones (Devonian)	crushed stone — road construction/resurfacing; aglime	Ee-1
	Melvin Stone Co.	Blue Rock Limestone #427	Perry	Tymochtee Dolomite (Silurian)	crushed stone — road construction/resurfacing	Fe-2
		Melvin Stone Co.	Green	Tymochtee Dolomite (Silurian)	crushed stone — unspecified	Fe-1

¹Sales only, no production.

1995 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY — Continued

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Franklin	American Aggregates Corp.	Columbus Limestone #221	Franklin, Jackson, Marion	Columbus Limestone (Devonian)	crushed stone — road construction/resurfacing	Fh-53
Greene	Olen Corp.	Marble Cliff #224	Norwich	Columbus & Delaware Limestones (Devonian)	crushed stone — road construction/resurfacing	Fh-2
		Hilliard Plant #1	Brown	Salina dolomite (Silurian)	crushed stone — riprap, commercial building	Fh-43
	American Aggregates Corp.	Cedarville Limestone #425	Cedarville	Cedarville Dolomite (Silurian)	crushed stone — road construction/resurfacing	Ge-17
		Fairborn Limestone #431	Sugar Creek	Cedarville Dolomite (Silurian)	crushed stone — road construction/resurfacing	Ge-25
	Southwestern Portland Cement Co.	Batdorf-Feirstone-Schneider	Bath	upper Brassfield (Silurian)	stone for portland cement manufacture	Ge-9
Guernsey	King Limestone, Inc.	King Limestone, Inc.	Spencer	Fishpot limestone (Pennsylvanian)	crushed stone — road construction/resurfacing	Gy-309 ²
Hamilton	Dravo Basic Materials Co., Inc.	Newtown	Anderson	Niagaran dolomite (Silurian)	crushed stone — road construction/resurfacing	Hmn-11 ³
	Martin Marietta Aggregates	Camp Dennison	Symmes		crushed stone — road construction/resurfacing	Hmn-5 ³
Hancock	Rumpke Mountain Mining Co.	Rumpke Mountain Mining Co.	Colerain		crushed stone — general sales, captive use	Hmn-72
	National Lime & Stone Co.	Findlay Plant	Liberty	Niagaran dolomite (Silurian)	crushed stone — riprap, commercial building, railroad ballast; aglime	Hk-7
Hardin	C.E. Duff & Son, Inc.	Forest Quarry	Jackson	Niagaran dolomite (Silurian)	crushed stone — riprap, portland cement concrete, road construction/resurfacing, commercial building	Hdn-S
Harrison Highland	Hardin Quarry Co., Inc.	Hardin Quarry Co., Inc.	Pleasant	Tymochtee Dolomite (Silurian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building; aglime	Hdn-2
	K.C.C.I.	Apex	German	Brassfield & Dayton Limestones (Silurian)	crushed stone — road construction/resurfacing	Jfn-K ⁴
	Davon, Inc.	Highland Stone	Hamer		crushed stone — road construction/resurfacing	Hd-2
Holmes	Marshall Quarry, Inc.	Marshall Quarry, Inc.	Marshall		crushed stone — road construction/resurfacing	Hd-4
	Martin Marietta Aggregates	Lynchburg	Union	Putnam Hill limestone (Pennsylvanian)	crushed stone — road construction/resurfacing	Hd-D
	Ohio Asphaltic Limestone Corp.	Ohio Asphaltic Limestone Corp.	Union		crushed stone — riprap, asphaltic concrete, road construction/resurfacing, commercial building; aglime	Hd-3
Jackson	Holmes Limestone Co.	241 Plant	Hardy		crushed stone — road construction/resurfacing	Hs-67
	Sands Hill Coal Co., Inc.	Sands Hill Strip #4	Milton	Vanport limestone (Pennsylvanian)	crushed stone — road construction/resurfacing; aglime	Jkn-SH
Jefferson	Waterloo Coal Co., Inc.	Bowman Strip	Bloomfield, Madison	Vanport limestone (Pennsylvanian)	crushed stone — road construction/resurfacing	Jkn-367
	K.C.C.I.	Apex	Springfield		crushed stone	Jfn-K ⁵
Lawrence Logan	Belville Mining Co., Inc.	Belville Mining Co. #1	Washington		crushed stone — unspecified	Le-B
	American Aggregates Corp.	East Liberty #226	Perry	Tymochtee Dolomite (Silurian)	crushed stone — road construction/resurfacing	Lgn-1
	C.E. Duff & Son, Inc.	C.E. Duff & Son, Inc.	Richland		crushed stone — riprap, portland cement concrete, road construction/resurfacing, commercial building	Lgn-15
Lucas	Northwood Stone & Asphalt Co.	Northwood Stone & Asphalt Co.	Richland		crushed stone — riprap, asphaltic concrete, road construction/resurfacing	Lgn-2
	Barrett Paving Materials, Inc.	Sylvania Quarry	Sylvania		crushed stone — road construction/resurfacing	Is-12

Mahoning	The France Stone Co.	Sylvania	Detroit River Group (Devonian)	crushed stone — road construction/resurfacing	Is-3
	Seaway Sand & Stone, Inc.	Waterville	Tymoclee Dolomite (Silurian)	crushed stone — road construction/resurfacing	Is-1
	Stoneco, Inc.	Swanton		crushed stone — riprap, commercial building	Is-13
		Waynesfield		crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building, aglime	Is-2
Marion	Blum Mining Co.	Springfield	Vanport limestone (Pennsylvanian)	crushed stone — other	Mg-629
	East Fairfield Coal Co.	Springfield	Vanport limestone (Pennsylvanian)	crushed stone — other	Mg-631
	E.M.A.I. Corp. (dba ESSROC Materials, Inc.)	Poland	Vanport limestone (Pennsylvanian)	stone for portland cement manufacture	Mg-608
	Honey Creek Stone Co.	Poland	Vanport limestone (Pennsylvanian)	stone for portland cement manufacture	Mg-EM
Mercer	J. M. Hamilton & Sons Co., Inc.	Springfield	Vanport limestone (Pennsylvanian)	crushed stone — unspecified	Mg-54
	National Lime & Stone Co.	Marion	Columbus & Delaware Limestones (Devonian)	crushed stone — asphaltic concrete, road construction/resurfacing	Mn-2
	Tri-County Limestone Co.	Grand	Niagaragan dolomite (Silurian)	crushed stone — riprap, commercial building, railroad ballast, aglime	Mn-3
	Morrow Gravel Co.	Dublin	Lockport & Guelph Dolomites (Silurian)	crushed stone — riprap, portland cement concrete, road construction/resurfacing, dog/horse runs, aglime	Mn-1
Miami	Stoneco, Inc.	Jefferson	Niagaragan dolomite (Silurian)	crushed stone — unspecified	Mr-2
	Barrett Paving Materials, Inc.	Union	Brassfield Limestone, Dayton & Laurel Dolomites (Silurian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building, aglime	Mr-1
	Piqua Materials, Inc.	Springcreek		crushed stone — road construction/resurfacing	Mi-BPM
	C. F. Poeppelman, Inc.	Newberry	Cedarville Dolomite (Silurian)	crushed stone — riprap, flux stone, road construction/resurfacing, industrial fillers, aglime	Mi-1
Monroe	Christman Quarry	Seneca		crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing; aglime	Mi-10
	Rubel Quarry, Inc.	Seneca		crushed stone — unspecified	Me-C
	American Aggregates Corp.	Clay	Cedarville Dolomite (Silurian)	crushed stone — other	Me-509
	Southwestern Portland Cement Co.	Van Buren	Cedarville Dolomite (Silurian)	crushed stone — road construction/resurfacing	My-1
Morgan	Central Ohio Coal Co.	Wayne	Brassfield Limestone (Silurian)	crushed stone — road construction/resurfacing	My-32 ⁶
	Chesterhill Stone Co.	Manchester	Benwood limestone (Pennsylvanian)	stone for portland cement manufacture	My-58
		Newton	Maxville Limestone (Mississippian)	crushed stone — road construction/resurfacing	Mon-600
	King Limestone, Inc.	Rich Hill	Fishpot limestone (Pennsylvanian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building, railroad ballast, other; stone for portland cement manufacture; aglime	Mum-106
Muskingum				crushed stone — road construction/resurfacing	Gy-309 ⁷

⁶See also Muskingum County.⁷Sales only, no production.⁸See also Jefferson County.⁹See also Harrison County.¹⁰Sales only, no production.¹¹See also Guernsey County.

1995 OHIO DIRECTORY OF LIMESTONE/DOLOMITE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY — Continued

County	Name of operator	Name of mine or quarry	Township	Geological unit	Type and principal use	State mine number
Muskingum (cont.)	Pleasant Valley Limestone	Pleasant Valley Limestone	Hopewell	Maxville Limestone (Mississippian)	crushed stone — public sales	Mum-907
	Salt Creek Materials, Inc.	Salt Creek Materials, Inc.	Perry		crushed stone — road construction/resurfacing	Mum-269
	Sidwell Bros., Inc.	Sidwell Quarry	Newton	Maxville Limestone (Mississippian)	crushed stone — road construction/resurfacing	Mum-104
		Sidwell Bros., Inc.	Newton	Maxville Limestone (Mississippian)	crushed stone — road construction/resurfacing	Mum-SB
	King Quarries, Inc.	King Quarries, Inc.	Olive		crushed stone — riprap, road construction/resurfacing	Ne-K
Noble					crushed stone — road construction/resurfacing	Ne-S
	Sharon Stone Co.	Sharon Stone Co.	Noble	Fishpot limestone (Pennsylvanian)	unspecified	Ne-86
	Zenger's Quarry	Zenger's Quarry	Stock		unspecified	Oa-18
	Fox Stone Products, Inc.	Fox Stone Products, Inc.	Put-in-Bay		crushed stone — road construction/resurfacing; lime (burned stone) — building, chemical and industrial	Oa-1
	GenLime Group, L.P.	GenLime Group, L.P.	Clay	Niagaran dolomite (Silurian)		
Ottawa					crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building	Oa-7
	Standard Lafarge	Marblehead	Danbury	Columbus Limestone (Devonian)	crushed stone — portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building	Oa-14
	Stoneco, Inc.	Rocky Ridge	Benton		crushed stone — portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building	Oa-6
	White Rock Quarry, L.P. Division of U.S. Aggregates, Inc.	White Rock Quarry	Allen	Guelph Dolomite (Silurian)	crushed stone — riprap, flux stone, portland cement concrete, road construction/resurfacing, other	Pg-7
	The France Stone Co.	Paulding	Crane	Tenmile Creek Dolomite (Devonian)	crushed stone — riprap, road construction/resurfacing	Pg-1
Paulding	Lafarge Corp.	Paulding Quarry	Crane	Detroit River Group & Dundee Limestone (Devonian)	stone for portland cement manufacture	Pg-2
	Stoneco, Inc.	Auglaize Quarry	Auglaize	Detroit River Group & Dundee Limestone (Devonian)	crushed stone — riprap, flux stone, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building; aglime	Py-235 ⁸
					crushed stone — road construction/resurfacing; unspecified	Py-343 ⁹
	Maxville Quarries, Inc.	Carpenter	Monday Creek	Maxville Limestone (Mississippian)	crushed stone — unspecified	Pky-4
	Melvin Stone Co.	Downhour	Monday Creek	Columbus Limestone (Devonian)	crushed stone — riprap, portland cement concrete, road construction/resurfacing; aglime	Pke-13
Pickaway	Latham Limestone, Inc.	Latham Limestone, Inc.	Mifflin	Greenfield Dolomite (Silurian)	crushed stone — riprap, road construction/resurfacing, ice control, dimension stone	Pre-5
Pike	Wysong Stone Co.	Wysong Stone Co.	Twin	Brassfield Limestone (Silurian)	crushed stone — riprap, portland cement concrete, road construction/resurfacing	Pm-2
Preble	Putnam Stone Co.	Putnam Stone Co.	Pleasant, Riley	Silurian	crushed stone — portland cement concrete, road construction/resurfacing, commercial building, fill	Sy-5
Putnam	Gotttron Bros. Co.	Gotttron Bros. Co.	Sandusky	Niagaran dolomite (Silurian)	crushed stone — road construction/resurfacing, lime (burned stone) — chemical and industrial	Sy-1
Sandusky					crushed stone — flux stone, road construction/resurfacing; glass, filler; lime (burned stone) — chemical and industrial	Sy-3 ¹⁰
	Martin Marietta Magnesia Specialties, Inc. Redland Ohio, Inc.	Woodville Quarry Woodville Plant	Woodville Woodville	Guelph Dolomite (Silurian) Niagaran dolomite (Silurian)		

Seneca	The France Stone Co.	Bloomville	Bloom	Columbus & Delaware Limestones (Devonian)	crushed stone — riprap, road construction/resurfacing; aglime	Sa-3
		Flat Rock	Thompson	Columbus & Delaware Limestones (Devonian)	crushed stone — riprap, road construction/resurfacing; aglime	Sa-1
	North Shore Stone Quarries, Inc.	North Shore Stone Quarries, Inc.	Thompson		crushed stone — riprap; dimension stone	Sa-8
	Premier Services Corp.	Premier Services Corp.	Liberty		crushed stone — unspecified	Sa-2
Shelby	Miami River Stone Co.	Miami River Stone Co.	Orange	Cedarville Dolomite (Silurian)	crushed stone — unspecified	Shy-6
	Sidney Sand & Gravel Co.	Rock Run Quarry	Washington		crushed stone — unspecified	Shy-16
	Spring Creek Corp.	River Quarry	Clinton		crushed stone — commercial building	Shy-15
Tuscarawas	Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	Vanport limestone (Pennsylvanian)	crushed stone — riprap, road construction/resurfacing	Ts-1818
Union	Northwood Stone & Asphalt Co.	Rockhold Division	York		crushed stone — riprap, road construction/resurfacing; aglime	Un-1
	Union Aggregates Co.	Union Limestone Plant	Mill Creek	Columbus Limestone (Devonian)	crushed stone — riprap, portland cement concrete, asphaltic concrete; aglime	Un-2
Van Wert	Ridge Township Quarry	Ridge Township Quarry	Ridge	Tymochtee Dolomite (Silurian)	crushed stone — road construction/resurfacing	Vt-7
	Stoneco, Inc.	Scott Quarry	Union		crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building	Vt-3
	Suever Stone Co., Inc.	Delphos Quarry	Washington	Tymochtee Dolomite (Silurian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, commercial building, driveway use	Vt-1
Vinton	Quality Stone Co.	Route 32	Clinton		unspecified	Vn-193
Wood	Custar Stone Co.	Custar	Milton		crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing; aglime	Wd-5
	MacRitchie Materials, Inc.	MacRitchie Materials, Inc.	Perry	Lockport & Salina Dolomites (Silurian)	unspecified	Wd-1
	Precision Aggregate, Inc.	Precision Aggregate II	Portage		crushed stone — riprap, portland cement concrete, road construction/resurfacing	Wd-14
	Stoneco, Inc.	Lime City Quarry	Perrysburg		crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building; aglime	Wd-6
		Portage Quarry	Portage	Greenfield & Lockport Dolomites (Silurian)	crushed stone — riprap, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building; aglime	Wd-11
Wyandot	McCarthy Stone Quarry	McCarthy Stone Quarry	Pitt	Bass Islands Group (Silurian)	crushed stone — asphaltic concrete, road construction/resurfacing	Wt-3
	National Lime & Stone Co.	Carey Plant	Crawford	Monroe dolomite (Silurian)	crushed stone — riprap, flux stone, commercial building, railroad ballast, extenders, fillers; aglime; lime (burned stone) — chemical and industrial	Wt-1
	Wyandot Dolomite, Inc.	Wyandot Dolomite, Inc.	Crawford	Greenfield & Guelph Dolomites (Silurian)	crushed stone — riprap, flux stone, portland cement concrete, asphaltic concrete, road construction/resurfacing, commercial building, railroad ballast, manufacturing sand, sinter; aglime	Wt-8

⁸Sales only, no production.⁹Production only, no sales.¹⁰Information for Sy-3 includes information for Sy-4.

1995 SAND AND GRAVEL COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
A-1 All Ohio Sand & Gravel Co.	1	191,697	191,697	Craig Fankhauser	1	3,750	3,750
ATS Enterprises	1	358,503	365,375	Feikert Sand & Gravel, Inc.	1	81,100	81,100
Agg Rok Materials	1	444,920	444,920	Fenner Sand & Gravel, Inc.	1	104,000	104,000
William Albert, Inc.	1	17,034	19,034	Fleckenstein Farm Gravel Pit	1	4,120	4,120
Allgeier & Son, Inc.	1	95,000	95,000	Fleming Construction Co., Inc.	1	364	364
American Aggregates Corp.	12	8,122,497	6,496,975	Fourman's Sand & Gravel, Inc.	1	59,883	59,883
American Sand & Gravel	2	986,050	986,050	Friendsville Sand, L.P.	1	46,759	46,759
Apache Aggregate & Paving Co.	1	142,404	162,531	Frye Sand & Gravel, Inc.	1	1,171	1,171
Ashcraft Sand & Gravel, Inc.	1	71,755	71,755	Ganges Gravel Co.	1	6,182	6,182
Atlas Towing Co.	1	19,173	19,173	John L. Garber Materials, Inc.	1	269,212	270,218
Aurora Sand & Gravel, Inc.	1	230,000	230,000	Al Gasser Excavating, Inc.	1	2,375	2,375
Baker Sand, Inc.	1	715,113	715,113	Geiger Sand & Gravel	1	18,162	20,000
Barrett Paving Materials, Inc.	2	412,200	412,200	Gibson Sand & Gravel Co.	1	464	464
Beaver Excavating, Inc.	1	2,500	2,500	David B. Good	1	3,310	3,310
Beck Sand & Gravel, Inc.	1	331,144	331,144	Goodwin Sand & Gravel, Inc.	1	29,900	36,000
Becky Lane Trucking, Inc.	1	46,856	46,856	Green Oak Potting Products, Inc.	1	404	404
Paul D. Beery Trucking Co.	1	10,876	400	Grimes Excavating	1	52,800	52,800
Benco Leasing, Inc.	1	62,618	70,918	H & H Utilities Co.	1	2,657	2,657
Beverly Slag Co.	1	952	952	Norman Harpster	1	500	500
Big Walnut Sand & Gravel, Inc.	1	110,722	110,722	Harrison Sand & Gravel Co.	1	90,976	100,500
Black Top Contracting, Inc.	1	15,132	15,132	Haubeil & Sons Asphalt & Materials, Inc.	1	124,729	124,729
E.E. Blair Construction Co.	1	207,369	207,369	Haueter Sand & Gravel, Inc.	1	257,425	257,425
Bolin & Bartley, Inc.	1	100,479	100,479	Heer Excavating, Inc.	1	4,041	4,041
Gaston Bowling, Inc.	1	5,975	5,975	Heiser Sand & Gravel Co.	1	59,345	59,345
D.H. Bowman & Sons, Inc.	1	28,730	34,530	Paul N. Herdman	1	672	672
Boyd Gravel Co.	1	287,701	324,620	Hidden Harbour Partners	1	79,621	79,621
Briggs Sand & Gravel, Inc.	1	19,547	19,547	Hillsdale Sand & Gravel, Inc.	1	5,524	0
Broadway Sand & Gravel, Inc.	1	18,688	18,688	Hilltop Aggregate, Inc.	1	458,816	458,816
Broshear Contractors, Inc.	1	10,945	10,945	Hilltop Basic Resources, Inc.	2	1,508,383	1,047,780
Karl Brugmann Sand & Gravel, Inc.	1	61,351	61,351	Hilltop Basic Resources, Inc., dba Enon Washed Sand & Gravel Co.	1	267,319	264,352
Oscar Brugmann Sand & Gravel, Inc.	2	550,132	569,650	Hocking Valley Concrete, Inc.	1	95,000	95,000
Buckeye Excavating	1	19,915	19,915	William A. Hoffman, Jr.	1	6,023	6,023
James Bunnell, Inc.	3	583,662	583,662	Tom Hollinger Excavating	1	296	296
C.I.R., Inc.	1	21,542	21,542	Hugo Sand Co.	1	293,167	293,167
Canton Aggregate	2	669,000	669,000	Inland South Aggregates	1	3,421	3,421
Carter & Carter, Inc.	1	771	771	JP Sand & Gravel Co.	1	535,485	535,485
Cashen, Inc.	1	1,450	1,450	Janson's Soil Service, Inc.	1	50	50
Jeff Chaney	1	14,752	14,752	Jarrett Sand Co.	1	2,457	2,457
Charlestown Sand & Gravel, Inc.	1	34,733	34,733	Jaymar, Inc.	1	219,994	219,994
Chesterhill Stone Co.	2	223,832	207,420	Jefferson Materials Co.	1	257,926	257,926
Chesterville Sand & Gravel Co., Inc.	1	149,273	149,273	Jimsco, Inc.	1	952	952
Chillicothe Sand & Gravel Co.	1	192,782	192,782	Joseph Sand & Gravel, Inc.	1	1,088	1,088
Clemson Excavating, Inc.	1	9,761	9,761	Karg Sand & Gravel Co.	1	59,000	59,000
M.J. Coates Construction Co.	1	194,664	194,664	Keener Sand & Clay Co.	1	613	613
Cochran Transportation Services, Inc.	1	42,729	42,729	Kilbarger Construction, Inc.	1	500	500
Boone Coleman Construction, Inc.	1	250	250	Kinsman Sand & Gravel Co.	1	58,865	58,865
Bill D. Colwell	1	26,587	26,587	Kipp's Gravel Co., Inc.	1	150,293	150,293
Complete Resources Co.	1	50,534	121,582	Kirby's Sand & Gravel, Inc.	1	116,320	116,320
Cremeans Concrete & Supply	1	2,278	2,278	Leonard E. Kleilein	1	21,000	24,818
R.A. Cruise Sand & Gravel, Inc.	1	56,334	56,334	L & I Natural Resources, Inc.	1	136,981	136,981
D & K Materials, Inc.	1	23,238	23,238	Lake Hope Asphalt, Inc.	1	21,336	24,120
D & W Sand & Gravel	1	15,508	15,508	Lakeside Sand & Gravel Co.	1	266,243	266,243
Darby Gravel Co.	1	4,210	4,210	Lancaster Sand & Gravel Co.	1	421,904	421,904
Demmy Construction, Inc.	1	61,226	61,226	Leonard Sand & Gravel	1	200	200
Demmy Sand & Gravel	1	8,146	8,146	Link Trucking Co.	1	8,604	12,238
A. J. Diana Sons, Inc.	1	7,500	10,250	Loxley Aggregates, Inc.	1	4,394	4,394
Dingledine Basic Materials, Inc.	1	128,330	128,330	Lucky Sand & Gravel Co.	1	116,602	116,602
Don's Dozer Service, Inc.	1	307	307	M & J Sand & Gravel, Inc.	1	35,460	35,460
James E. Downard	1	6,000	6,000	Donald Martin Contracting	1	750	750
Dravo Basic Materials Co., Inc.	2	288,311	124,219	Martin Marietta Aggregates	3	2,288,685	2,042,980
Dry Creek Gravel Co.	2	152,140	152,140	Mason's Sand & Gravel Co.	1	91,954	91,954
C. E. Duff & Son, Inc.	2	99,138	99,138	Massillon Materials, Inc.	1	460,265	460,265
E.A. Construction, Inc.	1	400	400	Massillon Washed Gravel Co.	1	323,422	323,422
Easton Resources, Inc.	1	520	520	Bill McKeever Excavating	1	240	240
Eaton Sand & Gravel Co.	1	4,000	4,000	Mecco, Inc.	1	407,902	407,902
David E. Edington	1	3,936	3,936	Mechanicsburg Sand & Gravel, Inc.	1	201,359	201,359
Elm Spring Farm	1	4,200	4,200				
Erie Blacktop, Inc.	1	524	1,041				
Erie Sand & Gravel Co.	1	13,190	13,190				

1995 SAND AND GRAVEL COMPANIES WITH SALES OR PRODUCTION — Continued

Company	No. of operations	Sales (tons)	Production (tons)	Company	No. of operations	Sales (tons)	Production (tons)
Meigs County Commissioners	1	27,230	27,230	R. W. Sidley, Inc.	2	116,625	116,625
Melvin Stone Co.	1	252,587	252,587	Sidney Sand & Gravel Co.	3	155,455	155,455
Menuet Bros. Sand & Gravel, Inc.	1	186,021	195,000	Simak Trucking, Inc.	1	55,059	55,059
Mickley Gravel Co.	1	850	850	Small's Sand & Gravel, Inc.	2	240,043	240,043
Miller Bros. Construction, Inc.	1	6,228	6,228	Sober Sand & Gravel Co.	1	1,800	1,800
Miller Bros. Gravel, Inc.	1	324,864	229,633	Soehnlén Bros. Sand & Gravel Inc.	1	82,487	88,860
Miller Sand & Gravel, Inc.	1	4,235	4,235	Solomon's Mines, Inc.	1	84,089	84,089
Moore's Excavating Co.	2	123,248	123,248	Solon Excavators Sand & Gravel, Inc.	3	267,793	267,793
Morrow Gravel Co.	2	35,111	35,111	Soltis Sand & Gravel	1	5,707	6,400
Muskingum River Gravel Co.	4	397,750	397,750	South Central Sand & Gravel	1	16,827	16,827
National Aggregates, Inc.	1	256,928	256,928	Southern Ohio Aggregates, Inc.	3	7,000	7,000
National Lime & Stone Co.	2	477,001	401,735	Spring Creek Corp.	2	405,696	405,696
Neer's Sand & Gravel	1	118,531	123,987	Spring Industries, Inc.	1	82,152	245,300
Nelson Sand & Gravel, Inc.	1	35,610	35,610	Springfield Sand & Gravel Co.	1	515,900	515,900
Nelson Stark Co.	1	10,381	10,381	Standard Lafarge	2	875,606	877,271
Newbury Sand & Gravel	1	16,840	16,840	Stewart & Reichman, Inc.	1	70,777	70,777
New Carlisle Sand & Gravel Co.	1	172	172	Stillwater Sand & Gravel, Inc.	1	226,584	226,584
Newton Asphalt Paving, Inc.	1	64,433	64,433	Stocker Sand & Gravel Co.	2	1,039,668	1,039,668
Northern Ohio Materials, Inc.	2	396,325	396,325	Stoneco, Inc.	1	326,000	297,684
Northern Ohio Paving Co.	1	316,554	316,554	Sunshine Sand Co.	1	3,224	3,224
Carl E. Oeder & Sons Sand & Gravel	1	489,276	489,276	T.K. Stone Co., Inc.	1	15,663	15,663
Oglebay Norton Industrial Sands, Inc.	1	15,662	15,662	T.T. & K. Construction, Inc.	1	420,000	420,000
Ohio-West Virginia Excavation	1	7,080	7,080	Tackett Builders	1	1,840	1,840
Olen Corp.	4	2,162,413	2,223,899	Teague Gravel Co., Inc.	1	71,598	71,598
Oneida Sand & Gravel, Inc.	1	150,748	117,177	Thiel Construction Co.	1	10,420	10,420
Osborne Materials Co.	1	99,208	99,208	Tipp Stone Co., Inc.	2	51,541	51,541
Oster Sand & Gravel, Inc.	3	807,760	807,760	Tri-State Asphalt Products	1	164,092	169,942
Ours Sand & Gravel	1	9,380	9,380	Trout Sand & Gravel Co.	1	40,943	41,148
Penry Stone Co.	1	85,942	89,942	Tuffco Sand & Gravel, Inc.	1	99,927	100,726
Phillips Sand & Gravel	1	435,826	435,826	Union Aggregates Co.	1	102,072	102,072
Piketon Sand & Gravel	1	492,226	514,909	Valley Materials Co.	1	66,036	66,036
Portage Lakes Sand & Gravel Co.	1	32,967	32,967	Valley Sand & Gravel, Inc.	1	4,041	4,041
Powell Gravel & Topsoil, Inc.	1	419,044	419,044	John Van Horn Trucking	1	446	446
Prairie Lane Sand & Gravel Co.	1	167,437	167,437	Van Wey Sand & Gravel, Inc.	1	880,142	968,156
Precision Aggregate, Inc.	1	127,843	127,843	Ralph C. Wagner & Sons	1	225	225
Quality Ready Mix, Inc.	1	46,906	46,906	Ward Materials, Inc.	1	44,267	47,267
Rack Sand, Inc.	1	53,721	53,721	Don Wartko Construction, Inc.	1	2,131	2,131
John P. Raisch, Inc.	1	7,750	7,750	Watson Gravel, Inc.	3	1,438,052	1,438,052
Red Brush Peat Co.	1	1,512	1,512	Weber Sand & Gravel, Inc.	1	330,612	330,612
Richards & Son, Inc.	1	858,215	858,215	Weidle Sand & Gravel, Inc.	2	458,851	458,851
Ries Sand & Gravel	1	1,102	1,102	Welch Sand & Gravel, Inc.	3	909,408	902,200
Riverside Sand & Gravel Co., Inc.	1	38,681	38,681	Mark Williams Blacktop Co., Inc.	1	37,714	37,714
Gary Roberts Excavating	1	460	460	Willowbrook	1	6,787	6,787
Rogers Group, Inc., dba Norwalk	1	353,811	353,811	Gene T. Wilson	1	2,232	2,232
Sand & Gravel	1	479	479	Wise Gravel	1	479	479
Ross County Gravel Co.	1	143,742	143,742	Wysong Gravel Co.	2	288,115	288,115
Rubber City Sand & Gravel Co.	1	128,824	128,824	X L Sand & Gravel	1	58,200	58,200
Rupp Construction, Inc.	1	385,370	385,370	Xenia Sand, Gravel & Asphalt Co.	1	1,974	1,974
S & S Aggregate, Inc.	3	280,000	280,000	Young's Sand & Gravel Co.	3	366,983	366,983
S & W Cement Construction, Inc.	1	19,800	19,800	Zollinger Sand & Gravel Co.	1	62,786	62,786
Salt Creek Materials, Inc.	1	5,926	0				
Samco, Inc.	1	389,453	389,453				
Sandman Sand & Stone, Inc.	2	144,512	144,512	TOTAL: 245 companies	304	50,640,409	48,505,859
Sant Sand & Gravel, Inc.	1	171,827	225,370				
Guy Schieve	1	9,800	9,800				
Schloss Materials Co.	1	118,653	118,653				
Scioto Sand & Gravel	1	2,648	2,648				
Scioto Valley Resources	1	246,746	264,566				
Seaway Sand & Stone, Inc.	1	16,278	16,278				
Seville Sand & Gravel, Inc.	1	435,829	435,829				
Shamrock Materials, Inc.	1	762,612	762,612				

1995 OHIO DIRECTORY OF LAKE ERIE SAND AND GRAVEL DREDGERS

Name of operator	Permitted dredging areas	Principal use
Erie Sand & Gravel Co. Osborne Materials Co.	Vermilion-Lorain Area "A" Fairport, Vermilion-Lorain Area "B"	building portland cement concrete, asphaltic concrete

1995 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Ald-G).

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Allen	Ward Materials, Inc.	Ward Materials, Inc.	Monroe	sand — asphaltic concrete, filtration, fill gravel — filtration, other	An-15
Ashland	David B. Good Ries Sand & Gravel	Good Pit Ries Sand & Gravel	Jackson Mohican	gravel — bank run sand — building, road construction/resurfacing, filtration	Ald-G Ald-9
	Young's Sand & Gravel Co.	Sprang	Green	sand — building, road construction/resurfacing, other gravel — building, road construction/resurfacing, other	Ald-7
		Young's Sand & Gravel Co.	Green	sand — building, road construction/resurfacing, other gravel — building, road construction/resurfacing, other	Ald-15
		Young's Sand & Gravel Co.	Green	sand — building, road construction/resurfacing, other gravel — building, road construction/resurfacing, other	Ald-Y
Ashtabula	Clemson Excavating, Inc.	Clemson Excavating, Inc.	Hartsgrove	gravel — pipe bedding, driveway use	Asa-C
	Easton Resources, Inc.	Brockway	Plymouth	sand — unspecified	Asa-22
	Frye Sand & Gravel, Inc.	Frye Sand & Gravel, Inc.	Denmark	gravel — bank run	Asa-10
	Janson's Soil Service, Inc.	Janson's Soil Service, Inc.	Morgan	gravel — bank run	Asa-14
	Kinsman Sand & Gravel Co.	Kinsman Sand & Gravel Co.	Wayne	sand — unspecified	Asa-20
	Nelson Sand & Gravel, Inc.	Nelson Sand & Gravel, Inc.	N. Kingsville	gravel — unspecified	Asa-N
	R. W. Sidley, Inc.	Conneaut Pit	Kingsville	sand — building	Asa-15
	Simak Trucking, Inc.	Simak Trucking, Inc.	Kingsville	sand — building, portland cement concrete, filtration, fill gravel — drainage	Asa-18
Athens	Black Top Contracting, Inc.	Black Top #1	Rome	sand — building, road construction/resurfacing, filtration, ice control	As-588
	Cochran Transportation Services, Inc.	Cochran Transportation Services, Inc.	Dover	gravel — asphaltic concrete sand — asphaltic concrete	As-595
	Lake Hope Asphalt, Inc.	Lake Hope Asphalt, Inc.	York	gravel — various sand — asphaltic concrete, various	As-1161
	Olen Corp.	Stewart Plant #4	Rome	gravel — asphaltic concrete, various sand — building, portland cement concrete	As-W
	Joseph Sand & Gravel, Inc.	Joseph Sand & Gravel, Inc.	Union	gravel — fill	Ae-23 Ae-30
	National Lime & Stone Co.	Wapakoneta Plant	Union	sand — building, portland cement concrete	Ae-16
Auglaize	Quality Ready Mix, Inc.	Quality Pit	Pusheta	sand — portland cement concrete gravel — portland cement concrete	Br-74
Belmont	Tri-State Asphalt Products	Tri-State Asphalt Products	Mead	sand — asphaltic concrete, road construction/resurfacing gravel — asphaltic concrete, road construction/resurfacing, ice control	Br-35
Butler	American Aggregates Corp.	Fairfield #711	Fairfield	sand — road construction/resurfacing	Br-5
		Hamilton #710	St. Clair	gravel — road construction/resurfacing sand — road construction/resurfacing	Br-40 Br-48
	Gaston Bowling, Inc. Broshear Contractors, Inc.	Indian Creek Sand & Gravel Co. Ross Township Gravel	Ross Ross	gravel — road construction/resurfacing gravel — pipe bedding, bank run sand — unspecified gravel — unspecified	

1995 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY — Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Butler (cont.)	Bill D. Colwell Dingledine Basic Materials, Inc.	Sipps Lane Dingledine Basic Materials, Inc.	St. Clair Milford	gravel — road construction/resurfacing	Br-36
	Martin Marietta Aggregates Mecco, Inc.	Ross Mecco, Inc.	Ross	sand — asphaltic concrete, fill	Br-50
	Shamrock Materials, Inc.	Southern Ohio Aggregates, Inc.	Lemon	gravel — asphaltic concrete, road construction/resurfacing, fill	Br-29
	Watson Gravel, Inc.	Watson Pit	Madison	sand — road construction/resurfacing	Br-15
	Watson Gravel, Inc.	Watson Pit	Madison	gravel — building	Br-52
Carroll	Weidle Sand & Gravel, Inc.	Weidle Sand & Gravel, Inc.	St. Clair	sand — road construction/resurfacing	Br-S
	Welch Sand & Gravel, Inc.	Schlichter Pit	Fairfield	gravel — road construction/resurfacing	Br-47
	Oneida Sand & Gravel, Inc.	Oneida Sand & Gravel, Inc.	Madison	sand — building, portland cement concrete, asphaltic concrete/resurfacing	Br-6
	D & W Sand & Gravel	D & W Sand & Gravel	Fairfield	sand — unspecified	Br-38
	Bill McKeever Excavating Mechanicsburg Sand & Gravel, Inc.	Bill McKeever Excavating Mechanicsburg Sand & Gravel, Inc.	Brown	gravel — unspecified	Cl-204
Champaign	Moore's Excavating Co.	Moore's Excavating Co.	Union	gravel — road construction/resurfacing	Cpn-21
	T.K. Stone Co., Inc.	T.K. Stone Co., Inc.	Urbana Union	sand — unspecified	Cpn-24
	American Aggregates Corp.	Fairborn #413	Salem	gravel — driveway use, bank run	Cpn-22
	Barrett Paving Materials, Inc.	Fairborn #141	Wayne	sand — unspecified	Cpn-20
	Demmy Construction, Inc.	Kieffer Pit	Bethel	gravel — unspecified	Cpn-25
Clark	Demmy Sand & Gravel Hilltop Basic Resources, Inc. (dba Enon Washed Sand & Gravel Co.)	Demmy Sand & Gravel Enon Washed Sand & Gravel Co.	Mad River	sand — road construction/resurfacing	Cl-13
	Hilltop Basic Resources, Inc.	Fairborn Aggregate Plant	Mad River	gravel — road construction/resurfacing	Cl-28
	Moore's Excavating Co.	Moore's Excavating Co.	Mad River	sand — asphaltic concrete	Cl-501
	Springfield Sand & Gravel Co.	Springfield Sand & Gravel Co.	Mad River	gravel — building	Cl-502
	Barrett Paving Materials, Inc.	Perintown	Bethel	sand — building	Cl-3
Clermont	Dravo Basic Materials Co., Inc.	Kipp's Gravel Co., Inc.	Bethel	sand — building, portland cement concrete, asphaltic concrete	Ge-41
	Kipp's Gravel Co., Inc.	Kipp's Gravel Co., Inc.	Moorefield	gravel — portland cement concrete, asphaltic concrete, fill, base	Cl-29
	Inland South Aggregates Willowbrook	Inland South Aggregates Willowbrook	Springfield	sand — building	Cl-25
	X L Sand & Gravel	X L Sand & Gravel	Union	sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Cl-9
	Barrett Paving Materials, Inc.	Perintown	Washington	gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Cl-11
Columbiana	Inland South Aggregates Willowbrook	Inland South Aggregates Willowbrook	Stonick	sand — unspecified	Cl-7
	X L Sand & Gravel	X L Sand & Gravel	Middleton	gravel — unspecified	Ca-351
	Willowbrook	Willowbrook	Elk Run	sand — road construction/resurfacing	Ca-993
	X L Sand & Gravel	X L Sand & Gravel	Middleton	gravel — road construction/resurfacing	Ca-881
	Willowbrook	Willowbrook	Middleton	gravel — unspecified	Ca-881

Coshocton	William Albert, Inc. Apache Aggregate & Paving Co.	William Albert, Inc. Apache Aggregate & Paving Co.	Franklin Keene	sand — building, road construction/resurfacing, filtration, other gravel — building, road construction/resurfacing, filtration, other sand — building, portland cement concrete, asphaltic concrete gravel — portland cement concrete, asphaltic concrete, road construction/resurfacing	Cn-828 Cn-783
Crawford	Gibson Sand & Gravel Co.	Gibson Sand & Gravel Co.	Jefferson	sand — unspecified gravel — unspecified	Cd-3
Darke	Fourman's Sand & Gravel, Inc. Tom Hollinger Excavating	Fourman's Sand & Gravel, Inc. Hollinger Gravel Plant	Greenville Harrison	sand — unspecified gravel — unspecified gravel — farm ballast	Dke-4 Dke-10
Defiance	Hillsdale Sand & Gravel, Inc.	Hillsdale Sand & Gravel, Inc.	Farmer	gravel — road construction/resurfacing	De-2
Erie	Erie Blacktop, Inc. Jarrett Sand Co. Keener Sand & Clay Co.	Erie Blacktop Quarry Jarrett Sand Co. Huron Plant	Margaretta Groton Huron	sand — road construction/resurfacing sand — fill sand — foundry	Ee-27 Ee-29 Ee-5
Fairfield	Paul D. Beery Trucking Co. James E. Downard Lancaster Sand & Gravel Co.	Paul D. Beery Trucking Co. Downard Pit Lancaster Sand & Gravel Co.	Berne Rush Creek Berne	sand — unspecified gravel — unspecified sand — fill sand — building gravel — building	Fd-14 Fd-16 Fd-13
Franklin	Agg Rok Materials American Aggregates Corp.	Agg Rok Materials Lockbourne #213 Columbus #210	Franklin Hamilton Marion	sand — portland cement concrete, asphaltic concrete gravel — portland cement concrete, asphaltic concrete, road construction/resurfacing sand — road construction/resurfacing gravel — road construction/resurfacing sand — road construction/resurfacing	Fn-36 Fn-23 Fn-6
	Big Walnut Sand & Gravel, Inc. JP Sand & Gravel Co.	Big Walnut Sand & Gravel, Inc. JP Sand & Gravel Co.	Hamilton, Madison Hamilton	gravel — road construction/resurfacing sand — fill, utilities bedding gravel — fill, utilities bedding sand — building	Fn-14 Fn-52
	Mason's Sand & Gravel Co. Olen Corp.	Mason's Sand & Gravel Co. Hilliard Plant #1 Columbus Plant #3	Hamilton Brown Hamilton	gravel — building sand — building gravel — building sand — building gravel — building	Fn-11 Fn-43
Fulton	Sandman Sand & Stone, Inc. Creneans Concrete & Supply Jaymar, Inc. Ours Sand & Gravel	County Road Creneans Concrete & Supply Jaymar, Inc. Ours Sand & Gravel	Swan Creek Addison Addison Ohio	sand — building, other sand — fill, bank run sand — unspecified sand — unspecified	Ftn-S Ga-626 Ga-J Ga-O
Geauga	Haueter Sand & Gravel, Inc. Newbury Sand & Gravel Solon Excavators Sand & Gravel, Inc.	Haueter Sand & Gravel, Inc. Newbury Sand & Gravel May	Burton, Newbury Burton, Newbury Auburn	sand — building, portland cement concrete gravel — filtration, oversize sand — fill sand — building gravel — building sand — fill	Gea-29 Gea-N Gea-43
	Soltis Sand & Gravel Teague Gravel Co., Inc.	Soltis Sand & Gravel Teague Gravel Pit	Parkman Newbury	gravel — fill sand — building, portland cement concrete, filtration gravel — building, portland cement concrete, filtration	Gea-9 Gea-35
Greene	American Aggregates Corp.	Haines Rd. #419 Xenia #414 Spring Valley Gravel #434	Beaver Creek Beaver Creek Spring Valley	sand — road construction/resurfacing gravel — road construction/resurfacing sand — road construction/resurfacing gravel — road construction/resurfacing sand — road construction/resurfacing gravel — road construction/resurfacing	Ge-32 Ge-33 Ge-42

¹See also Greene County.

1995 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY - Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Greene (cont.)	M.J. Coates Construction Co.	M.J. Coates Construction Co.	Spring Valley	sand - building	Ge-47
	Hilltop Basic Resources, Inc.	Fairborn Aggregate Plant	Bath	gravel - building	Ge-42
	Donald Martin Contracting	Donald Martin Contracting	Spring Valley	gravel - building, portland cement concrete, asphaltic concrete	Ge-40
	Phillips Sand & Gravel	Phillips Sand & Gravel	Beaver Creek	gravel - bank run	Ge-36
	S & W Cement Construction, Inc.	S & W	Xenia	sand - unspecified	Ge-W
	Watson Gravel, Inc.	Spring Valley	Spring Valley	gravel - unspecified	Ge-38
	Xenia Sand, Gravel & Asphalt Co.	Xenia Sand, Gravel & Asphalt Co.	Xenia	gravel - portland cement concrete	Ge-10
	Allgeier & Son, Inc.	Miami River Rd.	Miami	sand - building	Hmn-AS1
	American Aggregates Corp.	Harrison #712	Harrison	gravel - building	Hmn-37
	Ashcraft Sand & Gravel, Inc.	Ashcraft Sand & Gravel, Inc.	Whitewater	sand - road construction/resurfacing	Hmn-54
Hamilton	James Bunnell, Inc.	James Bunnell, Inc.	Harrison	gravel - building	Hmn-50
	James Bunnell, Inc.	James Bunnell, Inc.	Whitewater	sand - other	Hmn-59
	James Bunnell, Inc.	James Bunnell, Inc.	Whitewater	gravel - other	Hmn-B
	Dravo Basic Materials Co., Inc.	Newtown	Anderson	sand - other	Hmn-11 ³
	Eaton Sand & Gravel Co.	Eaton Sand & Gravel Co.	Whitewater	gravel - road construction/resurfacing	Hmn-46
	Harrison Sand & Gravel Co.	Harrison Sand & Gravel Co.	Harrison	sand - unspecified	Hmn-17
	Leonard Sand & Gravel	Leonard Sand & Gravel	Crosby	sand - building, portland cement concrete, road construction/resurfacing, filtration, ice control	Hmn-67
	Martin Marietta Aggregates	Camp Dennison	Symmes	sand - other	Hmn-5
	Nelson Stark Co.	Nelson Stark Gravel Pit	Miami	gravel - road construction/resurfacing	Hmn-C
	Powell Gravel & Topsoil, Inc.	Powell Gravel & Topsoil, Inc.	Whitewater	sand - building	Hmn-71
Hardin Hocking	Rack Sand, Inc.	Rack Sand, Inc.	Mill Creek	gravel - building	Hmn-10
	Southern Ohio Aggregates, Inc.	Southern Ohio Aggregates, Inc.	Whitewater	sand - building	Hmn-SO
	Welch Sand & Gravel, Inc.	East Miami Pit	Colerain	sand - building	Hmn-48
	Norman Harpster	Fernald Pit	Crosby	gravel - building	Hmn-42
	Hocking Valley Concrete, Inc.	Harpster Pit	Roundhead	gravel - fill	Hdn-H
	Kilbarger Construction, Inc.	Hocking Valley Concrete, Inc.	Green	sand - portland cement concrete	Hg-262
	Muskingum River Gravel Co.	Kilbarger Gravel Pit	Falls Green, Starr	gravel - portland cement concrete	Hg-329
	Jeff Chaney	Muskingum River Gravel Co.		sand - road construction/resurfacing	Hg-301
	Feikert Sand & Gravel, Inc.	Spring Run Gravel	Killbuck, Monroe	gravel - road construction/resurfacing	Hs-96
	Menuez Bros. Sand & Gravel, Inc.	Feikert Sand & Gravel, Inc.	Salt Creek	sand - unspecified	Hs-511 ⁴
Holmes	John Van Horn Trucking	Fair Pit	Hardy	sand - building, portland cement concrete	Hs-82
	John Van Horn Trucking	John Van Horn Trucking	Washington	gravel - building, portland cement concrete, road construction/resurfacing	Hs-VH

Huron	Rogers Group, Inc. (dba Norwalk Sand & Gravel)	Norwalk Sand & Gravel	Norwalk	sand — building, portland cement concrete, asphaltic concrete, filtration, fill gravel — building, road construction/resurfacing, fill	Hmn-1
Knox	Goodwin Sand & Gravel, Inc.	Goodwin Sand & Gravel, Inc.	Clinton	sand — road construction/resurfacing, other	Kx-7
	Mickley Gravel Co.	Mickley Gravel Co.	Union	gravel — road construction/resurfacing, other sand — other gravel — other	Kx-5
Lake	Oglebay Norton Industrial Sands, Inc. Olen Corp.	Millwood Fredericktown Plant #2	Union Morris	sand — filtration sand — building, portland cement concrete, asphaltic concrete gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, ice control	Kx-1 Kx-16
	Sant Sand & Gravel, Inc.	Sant Sand & Gravel, Inc.	Clinton	sand — building	Kx-3
	Small's Sand & Gravel, Inc.	Killduff Rd.	Harrison	gravel — building, road construction/resurfacing sand — unspecified	Kx-15
	C.I.R., Inc. Cashen, Inc. R. W. Sidley, Inc.	Zion Rd. Harmon Cashen Pit Painesville Pit	Harrison Madison Perry Painesville	gravel — unspecified gravel — unspecified gravel — pipe fill sand — fill sand — portland cement concrete, road construction/resurfacing/ fill gravel — drainage	Kx-17 Lke-CJR Lke-C Lke-7
	Becky Lane Trucking, Inc.	B & L Sand	Perry	sand — fill	Le-430
Lawrence	Dry Creek Gravel Co.	Plant #3	Newton	sand — road construction/resurfacing	Lg-DC
Licking	Geiger Sand & Gravel	Plant #2	Washington	gravel — road construction/resurfacing	Lg-31
	Gary Roberts Excavating	Alexandria Pit	St. Albans	gravel — road construction/resurfacing sand — filtration gravel — filtration	Lg-W
	Van Wey Sand & Gravel, Inc.	Gary Roberts Excavating Van Wey Sand & Gravel, Inc.	Madison Newton	sand — unspecified gravel — unspecified sand — building, portland cement concrete, asphaltic concrete, golf course sand gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Lg-504 Lg-10
Logan	C. E. Duff & Son, Inc.	Bellefontaine Duff Sand Co.	Lake Washington	sand — filtration	Lgn-36 Lgn-31
	Miller Bros. Construction, Inc.	Miller Bros. Construction, Inc.	Monroe	sand — building, portland cement concrete	Lgn-M
	Neer's Sand & Gravel	Neer's Sand & Gravel	Union	gravel — road construction/resurfacing sand — unspecified gravel — unspecified	Lgn-6
Lorain	Guy Schieve	Schieve Pit	Henrietta	sand — fill	Ln-12
Lucas	Craig Fankhauser	Fankhauser Pit	Swanton	sand — building	LS-F
	Hidden Harbour Partners	Hidden Harbour Partners	Springfield	sand — building, other	LS-H1
Madison	Sandman Sand & Stone, Inc.	Archbold-Whitehouse Pit	Providence	sand — building, other	LS-MH
	Seaway Sand & Stone, Inc.	Seaway Sand & Stone, Inc.	Swanton	sand — building	LS-13
Mahoning	Tuffco Sand & Gravel, Inc.	Tuffco Sand & Gravel, Inc.	Darby	sand — asphaltic concrete gravel — building, fill, driveway use	Mdn-11
	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Green	sand — building, road construction/resurfacing, filtration gravel — building, road construction/resurfacing, filtration	Mg-632
Marion	Fleming Construction Co., Inc. Penry Stone Co.	Fleming Construction Co., Inc. Prospect Plant	Prospect Prospect	gravel — building sand — building	Mn-19 Mn-4
	Scioto Sand & Gravel	Scioto Sand & Gravel	Prospect	gravel — building gravel — building sand — mason sand	Mn-16
	Union Aggregates Co.	Prospect Sand & Gravel Plant	Prospect	gravel — fill sand — building gravel — other	Mn-10

²See also Clark County.³Information for Hmn-11 includes information for Hmn-70.⁴Information for Hs-511 includes information for Hs-F.

1995 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY — Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Medina	Baker Sand, Inc.	Baker Sand, Inc.	Harrisville, Westfield	sand — building, asphaltic concrete, road construction/resurfacing, fill	Ma-20
	Friendsville Sand, L.P. Seville Sand & Gravel, Inc.	Friendsville Sand, L.P. Seville Sand & Gravel, Inc.	Westfield Harrisville	gravel — road construction/resurfacing sand — building sand — building, asphaltic concrete, filtration gravel — building, asphaltic concrete, road construction/resurfacing, filtration	Ma-23 Ma-22
	Martin Marietta Aggregates	Apple Grove	Letart	sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Ms-205
Meigs	Meigs County Commissioners	Meigs County Pit	Letart	gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Ms-301
	Richards & Son, Inc.	Richards & Son, Inc.	Letart	sand — unspecified gravel — unspecified sand — building, asphaltic concrete, filtration gravel — building, asphaltic concrete, road construction/resurfacing, filtration	Ms-298
	American Aggregates Corp.	Troy Gravel #433	Concord	sand — road construction/resurfacing gravel — road construction/resurfacing	Mi-3
Miami	Fenner Sand & Gravel, Inc.	Woodville Concrete Corp.	Newton	sand — portland cement concrete	Mi-4
	New Carlisle Sand & Gravel Co.	New Carlisle Sand & Gravel Co.	Bethel	gravel — portland cement concrete sand — fill	Mi-501
	Stillwater Sand & Gravel, Inc.	Stillwater Sand & Gravel, Inc.	Union	gravel — fill sand — building	Mi-504
Monroe	Tipp Stone Co., Inc.	Troy	Elizabeth	gravel — building sand — unspecified	Mi-12
	Wise Gravel	Wise Gravel	Newberry	gravel — unspecified gravel — building	Mi-9
	Ohio-West Virginia Excavation	OH-WV Excavation	Salem	sand — bank run gravel — bank run	Me-508
Montgomery	American Aggregates Corp.	Rip Rap Road #416	Wayne	sand — road construction/resurfacing gravel — road construction/resurfacing	My-66
	Broadway Sand & Gravel, Inc.	Broadway Sand & Gravel, Inc.	Harrison	sand — building gravel — building	My-65
	Carter & Carter, Inc. H & H Utilities Co.	Carter & Carter, Inc. H & H Gravel	Miami Miami	gravel — building, road construction/resurfacing sand — unspecified gravel — unspecified	My-CW My-68
Morgan	Hilltop Basic Resources, Inc.	West Carrollton Aggregate Plant	Jefferson, Miami	sand — building, portland cement concrete, asphaltic concrete, other	My-19
	Jimco, Inc. Miller Bros. Gravel, Inc.	Taylorsville Rd. Hardfill Miller Bros. Gravel, Inc.	Wayne Butler	gravel — portland cement concrete, asphaltic concrete, fill, base gravel — bank run sand — building, portland cement concrete, mason sand	My-55 My-52
	John P. Raisch, Inc.	John P. Raisch, Inc.	Jefferson	gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration, other	My-R
Morgan	Tipp Stone Co., Inc.	Meeker	Butler	sand — unspecified gravel — unspecified	My-61
	Weidle Sand & Gravel, Inc.	Weidle Sand & Gravel, Inc.	German	sand — unspecified gravel — unspecified	My-41
	Chesterhill Stone Co.	Buck Farm	Windsor	sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Mon-588
Morgan	Link Trucking Co.	Graham Farm	Windsor	gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Mon-OSC
	Link Trucking Co.	Link Trucking Co.	Bloom	sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	Mon-L

Morrow	Chesterville Sand & Gravel Co., Inc.	Chesterville Sand & Gravel Co., Inc.	Chester	sand — building, filtration gravel — building, road construction/resurfacing, filtration, ice control, landscaping	Mw-10
Muskingum	Boyd Gravel Co.	Dresden Plant #1	Cass	sand — road construction/resurfacing	Mum-799
	Muskingum River Gravel Co.	Muskingum River Gravel Co.	Wayne	gravel — road construction/resurfacing	Mum-228
	Salt Creek Materials, Inc.	Salt Creek Materials, Inc.	Washington	gravel — road construction/resurfacing	Mum-216
	Complete Resources Co.	Darby Materials	Darby	sand — building	Fn-C
Pickaway	Darby Gravel Co.	Darby Gravel Co.	Darby	gravel — asphaltic concrete, road construction/resurfacing	Pky-D
	William A. Hoffman, Jr.	Hoffman Pit	Wayne	sand — fill	Pky-H
	Melvin Stone Co.	Melvin Stone Co.	Circleville, Wayne	gravel — screened	Pky-R
	Valley Sand & Gravel, Inc.	Valley Sand & Gravel, Inc.	Darby	sand — fill	Pky-C
Pike	Gene T. Wilson	Wilson Pit	Darby	gravel — unspecified	Pky-W
	Piketon Sand & Gravel	Piketon	Scioto	gravel — building	Pke-24
	South Central Sand & Gravel	South Central Sand & Gravel	Scioto	sand — bank run	Pke-30
	Valley Materials Co.	Valley Materials Co.	Scioto	gravel — unspecified	Pke-26
Portage	Aurora Sand & Gravel, Inc.	Aurora Sand & Gravel, Inc.	Aurora	gravel — unspecified	Pe-84
	Beck Sand & Gravel, Inc.	Beck Sand & Gravel, Inc.	Shalersville	sand — asphaltic concrete	Pe-50
	Karl Brugmann Sand & Gravel, Inc.	Karl Brugmann Sand & Gravel, Inc.	Shalersville	sand — unspecified	Pe-15
	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	gravel — building	Pe-9
	Charlestown Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	sand — unspecified	Pe-OB
	R. A. Cruise Sand & Gravel, Inc.	Charlestown Sand & Gravel, Inc.	Charlestown	sand — unspecified	Pe-17
	D & K Materials, Inc.	D & K Materials, Inc.	Franklin, Ravenna	sand — building	Pe-45
	Don's Dozer Service, Inc.	Don's Dozer Service, Inc.	Brimfield	gravel — building	Pe-101
	Green Oaks Potting Products, Inc.	Green Oaks	Streetsboro	sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing	Pe-96
	Hilltop Aggregate, Inc.	Hilltop Aggregate, Inc.	Franklin	gravel — building, asphaltic concrete	Pe-89
	Hugo Sand Co.	Hugo Sand Co.	Suffield	sand — road construction/resurfacing, bank run	Pe-56
	Jefferson Materials Co.	Howitt	Franklin	gravel — fill	Pe-10
	Karg Sand & Gravel Co.	Karg Sand & Gravel Co.	Streetsboro	sand — soil mix	Pe-63
	Lakeside Sand & Gravel Co.	Lakeside Sand & Gravel Co.	Brimfield	gravel — unspecified	Pe-83
	Lucky Sand & Gravel Co.	Lucky Sand & Gravel Co.	Shalersville	gravel — building, road construction/resurfacing, other	Pe-40
	Miller Sand & Gravel, Inc.	Miller Sand & Gravel, Inc.	Mantua	sand — road construction/resurfacing	Pe-L
			Windham	gravel — building, backfill	Pe-39
				gravel — building, road construction/resurfacing, roofing	
				gravel — building, soil mix	
				gravel — building, soil mix	

1995 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY — Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Portage (cont.)	Northern Ohio Materials, Inc.	Northern Ohio Materials, Inc.	Streetsboro	sand — building, portland cement concrete	Pe-85
	Red Brush Peat Co.	Red Brush Peat Co.	Franklin	gravel — building sand — bank run	Pe-61
	S & S Aggregate, Inc.	Twin Lakes Sand, Inc.	Shalersville, Streetsboro	gravel — bank run	Pe-59
	Schloss Materials Co.	Twin Lakes Sand, Inc.	Streetsboro	gravel — road construction/resurfacing	Pe-67
	Sober Sand & Gravel Co.	Schloss Materials Co.	Mantua	gravel — road construction/resurfacing	Pe-60
	Solon Excavators Sand & Gravel, Inc.	Sober Sand & Gravel Co.	Rootstown	sand — asphaltic concrete	Pe-18
		Woodward	Mantua	gravel — asphaltic concrete	Pe-SE
	Standard Lafarge	Alger	Mantua	gravel — road construction/resurfacing, fill sand — road construction/resurfacing, fill	Pe-36
		Shalersville	Shalersville	sand — building gravel — building	Pe-68
	Sunshine Sand Co. Don Wartko Construction, Inc.	Shalersville Portable Sunshine Sand Co. Don Wartko Construction, Inc.	Shalersville Streetsboro Brimfield	sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing gravel — road construction/resurfacing sand — unspecified sand — building gravel — building	Pe-SS1 Pe-SSC Pe-92
Preble	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin	sand — building	Pre-9
	Southern Ohio Aggregates, Inc.	Southern Ohio Aggregates, Inc.	Gratis, Lanier	gravel — building sand — road construction/resurfacing	Pre-7
	Wysong Gravel Co.	Camden Plant	Somers	gravel — road construction/resurfacing sand — building, road construction/resurfacing	Pre-4
		West Alexandria Plant	Twin	gravel — road construction/resurfacing sand — building, road construction/resurfacing	Pre-6
Richland	Bolin & Bartley, Inc.	Bolin & Bartley Sand & Gravel	Weller	gravel — building, asphaltic concrete	Rd-20
	D. H. Bowman & Sons, Inc.	D. H. Bowman & Sons, Inc.	Jefferson	gravel — building sand — asphaltic concrete, pipe bedding	Rd-4
	Ganges Gravel Co. John L. Garber Materials, Inc.	Ganges Gravel Co. John L. Garber Materials, Inc.	Cass Troy	gravel — asphaltic concrete, road construction/resurfacing, filtra- tion, pipe bedding gravel — building	Rd-18 Rd-14
	Leonard E. Kleilein	Kleilein Pit	Monroe	sand — building sand — sewer construction gravel — sewer construction	Rd-K
Ross	Chillicothe Sand & Gravel Co.	Chillicothe Sand & Gravel Co.	Springfield	sand — building	Rs-27
	David E. Edington	Edington Pit	Concord	gravel — building sand — building	Rs-E
	Elm Spring Farm	Elm Spring Farm	Union	gravel — building	Rs-26
	Haubeil & Sons Asphalt & Materials, Inc.	Haubeil & Sons Asphalt & Materials, Inc.	Springfield	sand — building, road construction/resurfacing gravel — building, road construction/resurfacing sand — building, portland cement concrete, asphaltic concrete gravel — building, asphaltic concrete, road construction/ resurfacing, filtration	Rs-H
Scioto	Muskingum River Gravel Co.	Muskingum River Gravel Co.	Jefferson	sand — road construction/resurfacing gravel — road construction/resurfacing	Rs-M
	Ross County Gravel Co.	Ross County Gravel Co.	Scioto	gravel — road construction/resurfacing sand — unspecified	Rs-R
	Tackett Builders	Tackett Pit	Springfield	gravel — unspecified gravel — road construction/resurfacing	Rs-T
	ATS Enterprises	Haverhill	Green	gravel — road construction/resurfacing sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, filtration	So-79

Shelby	E. E. Blair Construcion Co.	Blair Pit	Porter	sand — building, asphaltic concrete	So-98
	Boone Coleman Construction, Inc.	Coleman Pit	Washington	gravel — building, road construction/resurfacing	So-B
	Scioto Valley Resources	Scioto Valley Resources	Valley	sand — building	So-100
	T.T. & K. Construction, Inc.	T.T. & K. Construction, Inc.	Washington	sand — road construction/resurfacing	So-102
	Fleckenstein Farm Gravel Pit	Fleckenstein Farm Gravel Pit	McLean	gravel — unspecified	Shy-12
	Sidney Sand & Gravel Co.	Staley Pit	Clinton, Salem	sand — fill	Shy-SS
		Wagner Pit	Orange	gravel — fill	Shy-S
		Milligan & Milligan-Washington Twp. Pit	Washington	sand — road construction/resurfacing	Shy-13
	Spring Creek Corp.	Pence Deposit	Washington	gravel — road construction/resurfacing	Shy-11
		Jones Deposit	Washington	sand — building, asphaltic concrete	Shy-18
Stark	American Sand & Gravel	American Sand & Gravel	Jackson	gravel — building, asphaltic concrete	Sk-203
		Crystal Springs	Jackson	sand — road construction/resurfacing	Sk-243
	Beaver Excavating, Inc.	Stone Products	Canton	gravel — road construction/resurfacing	Sk-BE
	Canton Aggregate	Canton Aggregate	Perry	gravel — road construction/resurfacing, other	Sk-CA
		Canton Aggregate	Plain	sand — portland cement concrete, asphaltic concrete	Sk-681
	A. J. Diana Sons, Inc.	Neidert Pit	Lawrence	gravel — portland cement concrete, asphaltic concrete	Sk-694
	Heiser Sand & Gravel Co.	Heiser Sand & Gravel Co.	Jackson	sand — fill	Sk-688
	Massillon Materials, Inc.	Massillon Materials, Inc.	Perry	gravel — building	Sk-M
	Massillon Washed Gravel Co.	Massillon Washed Gravel Co.	Bethlehem	sand — asphaltic concrete, road construction/resurfacing	Sk-607
	National Aggregates, Inc.	National Aggregates, Inc.	Sandy	gravel — portland cement concrete, road construction/resurfacing	Sk-1017
Summit	Northern Ohio Paving Co.	Allied Plant #3	Perry	sand — unspecified	Sk-N
	Oster Sand & Gravel, Inc.	Massillon Plant	Jackson, Perry	gravel — portland cement concrete, road construction/resurfacing	Sk-165
		Mudbrook Plant	Jackson	sand — portland cement concrete, road construction/resurfacing	Sk-R
	Ralph C. Wagner & Sons	Wagner & Sons	Bethlehem	gravel — building, asphaltic concrete, road construction/resurfacing, ice control, fill	Sk-W
	A-1 All Ohio Sand & Gravel Co.	A-1 All Ohio Sand & Gravel Co.	Coventry	sand — fill	St-50
	Portage Lakes Sand & Gravel Co.	Portage Lakes Sand & Gravel Co.	Coventry	sand — bank run, fill, base	St-53
	Riverside Sand & Gravel Co., Inc.	Riverside	Stow, Tallmadge	gravel — fill, base	St-24
				sand — building	
				gravel — building	
				sand — fill, bank run	

1995 OHIO DIRECTORY OF SAND AND GRAVEL MINING OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY - Continued

County	Name of operator	Name of pit	Township	Type and principal use	State mine number
Summit (cont.)	Rubber City Sand & Gravel Co.	Rubber City Sand & Gravel Co.	Green	sand — building, portland cement concrete, fill, baseball diamond mix gravel — building, portland cement concrete, road construction/resurfacing, filtration	St-9
	S & S Aggregate, Inc.	Twin Lakes Sand, Inc.	Coventry	sand — road construction/resurfacing	St-44
Trumbull	Samco, Inc.	Springbrook	Mesopotamia	gravel — road construction/resurfacing	TL-12
				sand — building, portland cement concrete, asphaltic concrete, road construction/resurfacing, fill	
				gravel — building, asphaltic concrete, road construction/resurfacing	
Tuscarawas	Benco Leasing, Inc., dba Goshen Sand & Gravel	Goshen Sand & Gravel	Goshen	sand — unspecified	Ts-1976
	Al Gasser Excavating, Inc.	Gasser Pit	Goshen	gravel — unspecified	Ts-2049
	Newton Asphalt Paving, Inc.	516	Dover	sand — building	Ts-2001
	Northern Ohio Materials, Inc.	Northern Ohio Materials, Inc.	Goshen	gravel — asphaltic concrete	Ts-2018
	Oster Sand & Gravel, Inc.	Bolivar Pit	Sandy	sand — building	Ts-2036
	Soehnlen Bros. Sand & Gravel, Inc.	Soehnlen Bros. Sand & Gravel, Inc.	Wayne	sand — building, asphaltic concrete, fill, ice control	
	Spring Industries, Inc.	Midvale Pit	Goshen	gravel — building, asphaltic concrete, road construction/resurfacing, fill, ice control	Ts-1826
				sand — building, road construction/resurfacing	Ts-1771
				gravel — building, portland cement concrete, asphaltic concrete, fill, ice control	
				gravel — building, portland cement concrete, asphaltic concrete, road construction/resurfacing	
Warren	Stewart & Reichman, Inc.	Stewart & Reichman, Inc.	Warwick	gravel — road construction/resurfacing	Ts-111
	Stocker Sand & Gravel Co.	Stocker Sand & Gravel Co.	Clay	sand — road construction/resurfacing	Ts-69
		Stocker Sand & Gravel Co.	Clay	sand — building, road construction/resurfacing	Ts-125
				gravel — building, road construction/resurfacing	
	American Aggregates Corp.	Franklin #714	Franklin	gravel — building, road construction/resurfacing	Wan-38
	Paul N. Herdman	Herdman Pit	Salem	sand — road construction/resurfacing	Wan-46
	L & I Natural Resources, Inc.	L & I Pit & Mill	Union	gravel — unspecified	Wan-50
	Morrow Gravel Co.	Morrow Gravel Co.	Hamilton	sand — building	Wan-M
		Morrow Gravel Co.	Salem	gravel — building, road construction/resurfacing	Wan-M2
	Carl E. Oeder & Sons Sand & Gravel	Oeder Pit	Union	sand — road construction/resurfacing	Wan-41
	Watson Gravel, Inc.	Mason Pit	Union	sand — road construction/resurfacing	Wan-10
				gravel — building, road construction/resurfacing	
Washington	Atlas Towing Co.	Belpre Bank Run	Belpre	sand — bank run	Wn-54
	Beverly Slag Co.	Devola Pit	Muskingum	sand — unspecified	Wn-55
	Briggs Sand & Gravel, Inc.	Briggs Sand & Gravel, Inc.	Warren	gravel — unspecified	Wn-508
	Grimes Excavating	Grimes Excavating	Grandview	sand — building	Wn-1008
				gravel — road construction/resurfacing	
	M & J Sand & Gravel, Inc.	M & J Sand & Gravel, Inc.	Newport	gravel — road construction/resurfacing	Wn-1010
	Muskingum River Gravel Co.	Plant #2	Grandview	sand — unspecified	Wn-38
				gravel — road construction/resurfacing	

Wayne	Trout Sand & Gravel Co.	Trout Sand & Gravel Co.	Warren	sand — unspecified gravel — unspecified	Wn-510
	Mark Williams Blacktop Co., Inc.	Williams Pit #2	Warren	sand — building, asphaltic concrete gravel — asphaltic concrete	Wn-1007
	Buckeye Excavating	Steiner Pit	Canaan	sand — building gravel — building	We-23
	E. A. Construction, Inc.	E. A. Construction, Inc.	Clinton	sand — building gravel — building	We-24
	Prairie Lane Sand & Gravel Co.	Prairie Lane Sand & Gravel Co.	Franklin	sand — building, road construction/resurfacing gravel — building	We-11
Williams	Rupp Construction, Inc.	Rupp Construction, Inc.	Baughman	sand — building, portland cement concrete, asphaltic concrete gravel — building, portland cement concrete, asphaltic concrete	We-7
	Zollinger Sand & Gravel Co.	Zollinger Sand & Gravel Co.	Chippewa	sand — building, portland cement concrete, fill gravel — fill	We-15
	Heer Excavating, Inc.	Mason Pit	Superior	gravel — building	Ws-22
	Stoneco, Inc.	South Montpelier	Superior	sand — portland cement concrete, asphaltic concrete, road construction/resurfacing	Ws-6
	Thiel Construction Co.	Thiel Construction Co.	Superior	gravel — portland cement concrete, asphaltic concrete, road construction/resurfacing	Ws-21
Wyandot	Weber Sand & Gravel, Inc.	Weber Sand & Gravel, Inc.	St. Joseph	gravel — building sand — unspecified	Ws-11
	Kirby's Sand & Gravel, Inc.	Kirby's Sand & Gravel, Inc.	Eden	sand — building, filtration	Wt-17
	National Lime & Stone Co.	Upper Sandusky Plant	Eden	gravel — building, road construction/resurfacing, filtration sand — building, portland cement concrete	Wt-15 ⁵
	Precision Aggregate, Inc.	Precision Aggregate I	Crane, Eden	gravel — portland cement concrete sand — portland cement concrete, other	Wt-4

⁵Information for Wt-15 includes information for Wt-18.

**1995 SANDSTONE/CONGLOMERATE COMPANIES WITH
SALES OR PRODUCTION**

Company	No. of operations	Sales (tons)	Production (tons)
Belden Brick Co.	1	4,802	4,802
Best Sand Corp.	2	747,373	920,048
Briar Hill Stone Co.	7	21,152	21,152
Oscar Brugmann Sand & Gravel, Inc.	1	56,787	60,000
Cleveland Quarries	2	2,224	2,224
E. A. Construction, Inc.	1	10,085	10,235
Gwin Contracting Co.	1	7,799	7,799
Keeney Sand & Stone, Inc.	1	61,606	61,606
Kimble Clay & Limestone Co.	1	3,345	3,345
Mesenburg Bros., Inc.	1	17,934	17,934
Newbury Sand & Gravel	1	22,562	22,562
Oglebay Norton Industrial Sands, Inc.	2	534,716	534,716
Riverside Sand & Gravel Co., Inc.	1	1,784	1,784
R. W. Sidley, Inc.	2	181,070	220,400
Slankard Dozer Service, Inc.	1	2,200	2,200
Solomon's Mines, Inc.	1	8,233	8,233
Southern Silica, Inc.	1	69,388	69,388
U.S. Silica Co.	1	17,580	19,236
Waller Bros. Stone Co.	2	12,668	12,668
TOTAL: 19 companies	30	1,783,308	2,000,332

1995 OHIO DIRECTORY OF SANDSTONE/CONGLOMERATE MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Gea-N).

SANDSTONE/CONGLOMERATE OPERATORS DIRECTORIES

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County	Name of operator	Name of quarry	Township	Geological unit	Type and principal use	State mine number
Columbiana Coshocton	Solomon's Mines, Inc.	Solomon's Mines, Inc.	Salem	Massillon (Pennsylvanian)	crushed or broken stone — fill	Ca-S
	Briar Hill Stone Co.	Quarry #26 Quarry #32 Quarry #24 Quarry #55 Quarry #54 Quarry #3	Monroe Monroe Monroe Monroe Tipton	Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian) Massillon (Pennsylvanian)	dimension stone — rough construction dimension stone — rough construction dimension stone — rough construction dimension stone — rough construction dimension stone — rough construction	Cn-13 Cn-686 Cn-692 Cn-815 Cn-809 Cn-659
	Cleveland Quarries	Birmingham Quarry	Florence	Berea (Mississippian)	dimension stone — rough construction, grindstones, rough architectural, finished stone, flagging	Ee-21
	Best Sand Corp.	Best Sand Corp.	Munson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone — foundry sand, glass sand, metallurgical pebble, refractory, silica flour, polishing/grinding sand, engine sand, frac sand, construction, filtration, filler, extender, turf, landscape use, trap sand	Gea-3
	Newbury Sand & Gravel R. W. Sidley, Inc.	Newbury Sand & Gravel Hamden Quarry Thompson Pit	Burton Hamden Thompson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone — construction crushed or broken stone — metallurgical pebble, aggregate, engine sand, filtration, mortar mix, sand blasting, trap sand crushed or broken stone — construction	Gea-N Gea-S Gea-1
Huron	Mesenburg Bros., Inc.	Mesenburg Bros., Inc.	Townsend	Berea (Mississippian)	crushed or broken stone — riprap	Hrn-8
Knox	Briar Hill Stone Co. Oglebay Norton Industrial Sands, Inc.	Quarry #6 Millwood	Jefferson Union	Massillon (Pennsylvanian) Black Hand (Mississippian)	dimension stone-rough construction crushed or broken stone — glass sand, silica flour, engine sand, frac sand, other	Kx-12 Kx-1
Lake	Keeney Sand & Stone, Inc.	Keeney Sand & Stone, Inc.	Leroy	Berea (Mississippian)	crushed or broken stone — aggregate	Lke-K
Lorain	Cleveland Quarries	Amherst Quarries	Amherst	Berea (Mississippian)	dimension stone — rough construction, rough architectural, finished stone, flagging	Ln-3
Mahoning	Gwin Contracting Co.	Gwin Contracting Co.	Milton	Sharon sandstone (Pennsylvanian)	crushed or broken stone — fractured laminated sand rock	Mg-62
Perry	Oglebay Norton Industrial Sands, Inc.	Glass Rock	Hopewell	Massillon (Pennsylvanian)	crushed or broken stone — glass sand, silica flour, frac sand, recreational	Py-344
Pike	Best Sand Corp.	Schrader Quarry	Jackson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone — foundry sand, glass sand, metallurgical pebble, polishing/grinding sand, fire and furnace sand, construction, filler, extender, trap sand, filtration	Pke-31
Portage	Oscar Brugmann Sand & Gravel, Inc.	Oscar Brugmann Sand & Gravel, Inc.	Shalersville	Sharon conglomerate (Pennsylvanian)	crushed or broken stone — other	Pe-9
Ross	Southern Silica, Inc.	Southern Silica, Inc.	Jefferson	Sharon conglomerate (Pennsylvanian)	crushed or broken stone — foundry sand, engine sand, fill, filtration	Rs-16
Scioto	Waller Bros. Stone Co.	Inskeep Quarry Crabtree Quarry	Rush Morgan, Rush, Union	Buena Vista (Mississippian) Buena Vista (Mississippian)	dimension stone — rough construction dimension stone — rough construction	So-48 So-76
Summit	Riverside Sand & Gravel Co., Inc.	Riverside	Stow, Tallmadge	Massillon (Pennsylvanian)	crushed or broken stone — riprap	St-24
Tuscarawas	Belden Brick Co. Kimble Clay & Limestone Co. Slankard Dozer Service, Inc. U.S. Silica Co.	Moomaw Pit Kimble Clay & Limestone Co. Beach City Pit Dundee Plant #1	Sugar Creek Dover Franklin Wayne Clinton	crushed or broken stone — other crushed or broken stone — construction crushed or broken stone — aggregate crushed or broken stone — industrial sand crushed or broken stone — construction	Ts-1517 Ts-1818 Ts-2032 Ts-1660	We-EA

1995 CLAY COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)
American Landfill, Inc.	1	3,981	3,981
Andre Land Forming	1	24,000	24,000
Athens County	1	121,677	121,677
Athens Hocking Reclamation Center	1	1,027	1,027
Belden Brick Co.	5	252,028	252,028
Bowerston Shale Co.	1	8,257	7,123
Brush Wellman, Inc.	1	30,000	30,000
BRYCO	1	56,425	56,425
Buckeye Industrial Mining Co.	1	42,000	42,000
Cedar Heights Clay Co.	3	60,048	60,048
Clark Clay Co.	1	3,669	4,000
Cochran Transportation Services, Inc.	1	168	168
D. & D. Mining Co.	1	71,719	71,719
Dennis Clay Co.	2	15,313	15,313
James E. Downard	1	2,644	2,644
E. A. Construction, Inc.	1	795	795
R. A. Eberts Co., Inc.	1	166	166
General Clay Products Corp.	1	3,851	3,851
Good Builders	1	200	200
Green Oaks Potting Products, Inc.	1	167	167
Holmes Limestone Co.	2	51,252	51,252
JTM Industries, Inc.	2	14,400	14,400
Kimble Clay & Limestone Co.	1	176,921	176,921
Koch Engineering Co., Inc.	1	175	175
L & M Mineral Co.	1	13,125	13,125
Lafarge Corp.	1	22,850	22,850
Loxley Aggregates, Inc.	1	1,972	1,972
Mitchell Transport, Inc.	1	810	810
NuWay Services, Inc.	1	38,943	38,943
Oldtown Coal Co.	1	23,588	23,588
Oxford Mining Co., Inc.	1	153,237	153,237
Rash Energy, Inc.	1	48,000	48,000
Red Brush Peat Co.	1	717	717
Samco, Inc.	1	338	338
Sandkuhl Tile Co., Inc.	1	4,713	4,713
Simak Trucking, Inc.	1	2,880	2,880
Solomon's Mines, Inc.	1	3,032	3,032
Soltis Sand & Gravel	1	4,862	4,862
Southwestern Portland Cement Co.	1	95,240	95,240
State Line Resources, Inc.	1	27,618	27,618
Stone Creek Brick Co.	1	37,318	37,318
Valley Clay Mining Co.	2	25,084	25,084
Valley Materials Co.	1	2,189	2,189
Waterloo Coal Co., Inc.	1	2,390	2,390
Weidle Sand & Gravel, Inc.	1	169,564	169,564
Zoar Mining Co.	1	3,460	3,460
TOTAL: 46 companies	56	1,622,813	1,622,010

1995 OHIO DIRECTORY OF CLAY-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Cn-B).

CLAY OPERATORS DIRECTORIES

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County	Name of operator	Name of mine or quarry	Township	Geological unit	Principal use	State mine number
Ashtabula	Simak Trucking, Inc.	Simak Trucking, Inc.	Kingsville		construction	Asa-18
Athens	Athens County	Athens County	Dover		landfill use	As-AC
	Athens Hocking Reclamation Center	Athens Hocking Reclamation Center	York		oil and gas well plugging material	As-594
	Cochran Transportation Services, Inc.	Cochran Transportation Services, Inc.	Dover		other	As-595
	R.A. Eberts Co., Inc.	Diamond Stone	Lee		common clay products	As-533
Auglaize	Sandkuhl Clay Works, Inc.	Sandkuhl Clay Works, Inc.	Salem	Pleistocene glacial clay	other	Ae-7
Columbiana	Buckeye Industrial Mining Co.	Buckeye Industrial Mining Co.	Madison		landfill use	Ca-BIM
	D. & D. Mining Co.	D. & D. Strip	Unity		refractories, landfill use	Ca-348
	State Line Resources, Inc.	State Line Resources, Inc.	Middleton	No. 5 & No. 6 clays (Pennsylvanian)	common clay products	Ca-505
Coshocton	BRYCO	Conesville	Franklin	No. 6 clay (Pennsylvanian)	other	Cn-B
	General Clay Products Corp.	Drescher Pit	Franklin	No. 6 clay (Pennsylvanian)	common clay products	Cn-787
	JTM Industries, Inc.	Ross Clay Mine	Franklin	No. 5 clay (Pennsylvanian)	construction	Cn-JT
		JTM Farm Clay Mine	Franklin		construction	Cn-JTM
		Heritage	Tuscarawas		common clay products	Cn-O
	Oxford Mining Co., Inc.	Downard Pit	Rush Creek		unspecified	Fd-16
Fairfield	James E. Downard	Downard Pit	York		landfill use	Ftn-A
Fulton	Andre Land Forming	Andre Land Forming	Parkman		fill	Gea-9
Geauga	Soltis Sand & Gravel	Soltis Sand & Gravel	Bath		cement manufacture	Ge-8
Hocking	Southwestern Portland Cement Co.	Miller & Trollinger	Green		other	Hg-G
Holmes	Good Builders	Good Builders	Hardy		common clay products	Hs-56
	Clark Clay Co.	Clark Clay Co.	Hardy	Putnam Hill (Pennsylvanian)	common clay products	Hs-67
	Holmes Limestone Co.	241 Plant	Madison	Brookville & Putnam Hill (Pennsylvanian)	common clay products	Jkn-1007
Jackson	Cedar Heights Clay Co. (Div. of Resco Products, Inc.)	Cedarloo/Jenkins/Greer	Jefferson	No. 5 clay (Pennsylvanian)	common clay products	Jkn-CH
		Katie Walke	Jefferson		common clay products	Jkn-CH1
		Sadler	Bloomfield, Madison	No. 5 & No. 6 clays (Pennsylvanian)	unspecified	Jkn-367
		Bowman Strip	Painesville		other	Lke-M
Lake	Waterloo Coal Co., Inc.	North Park Reclamation Clay Center	Bloomfield, Madison		landfill use	Lg-505
Licking	Mitchell Transport, Inc.	Toney Mine	Burlington		landfill use	Mg-632
Mahoning	NuWay Services, Inc.	Solomon's Mines, Inc.	Green		common clay products	My-W
Montgomery	Solomon's Mines, Inc.	Weidle Sand & Gravel, Inc.	Jefferson		common clay products	Mum-776
Muskingum	Weidle Sand & Gravel, Inc.	Frazesburg	Jackson		other	Mum-903
	Bowerton Shale Co.	Ohio Power	Newton		vitrified products	Mum-904
	Dennis Clay Co.	Kimpel #2	Harris		vitrified products	Oa-19
Ottawa	Brush Wellman, Inc.	Brush Wellman Clay Mine	Harris	Tionesta & Brookville clays (Pennsylvanian)	other	
Paulding	Lafarge Corp.	Paulding Quarry	Crane		cement manufacture	Pg-1
Perry	Dennis Clay Co.	Snake Hollow	Harrison	Detroit River & upper Dundee (Devonian)	other	Py-DCC
	Valley Clay Mining Co.	Tague Mine	Harrison	No. 5 clay (Pennsylvanian)	vitrified products	Py-V
Pike	Valley Materials Co.	Valley Materials Co.	Scioto	No. 5 clay (Pennsylvanian)	unspecified	Pke-26
Portage	Green Oaks Potting Products, Inc.	Green Oaks	Franklin		construction	Pe-89
	Red Brush Peat Co.	Red Brush Peat Co.	Franklin		fill	Pe-61
Preble	Loxley Aggregates, Inc.	Loxley Aggregates, Inc.	Twin		construction	Pre-9
Stark	American Landfill, Inc.	American Landfill, Inc.	Sandy	No. 5 & No. 6 clays (Pennsylvanian)	landfill use	Sk-246
	Holmes Limestone Co.	Bolivar Mine	Bethlehem	Brookville (Pennsylvanian)	common clay products	Sk-235
	Koch Engineering Co., Inc.	Koch Engineering Co., Inc.	Pike	No. 5 clay (Pennsylvanian)	vitrified products	Sk-K
	Oldtown Coal Co.	CW/MWCD Clay Project	Pike		landfill use	Sk-O
Trumbull	Samco, Inc.	Springbrook	Mesopotamia		construction	Tl-12
Tuscarawas	Belden Brick Co.	Wallick Pit	Franklin, Wayne	Brookville (Pennsylvanian)	common clay products	Ts-1841
		Moomaw Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products	Ts-1517
		Belden Pit	Sugar Creek	Brookville & Lower Kittanning (Pennsylvanian)	common clay products	Ts-1646
		Shanesville Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products	Ts-1939
	Beagle Pit	Beagle Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products	Ts-1960
	Kimble Clay & Limestone Co.	Kimble Clay & Limestone Co.	Dover	Vanport (Pennsylvanian)	common clay products, refractories, construction	Ts-1818
		Luikert	Mill		common clay products	Ts-1914
	L & M Mineral Co.	Stone Creek Clay Mine	Jefferson		common clay products	Ts-1557
	Stone Creek Brick Co.	Zoar Mining Co.	Sandy		vitrified products	Ts-540
Wayne	Zoar Mining Co.	Zoar Mining Co.	Clinton		common clay products	We-EA
	E. A. Construction, Inc.	#1	Paint	No. 6 clay (Pennsylvanian)	construction	We-26
	Rash Energy, Inc.	Rash Energy, Inc.			common clay products	

1995 SHALE COMPANIES WITH SALES OR PRODUCTION

Company	No. of operations	Sales (tons)	Production (tons)
American Landfill, Inc.	1	1,550	1,550
Belden Brick Co.	4	261,778	261,778
Bowerston Shale Co.	2	48,473	43,236
Buckeye-Industrial Mining Co.	1	12,000	12,000
Craigton Shale Co.	1	7,235	7,235
Dennis Clay Co.	2	12,513	12,513
Dome Minerals, Inc.	1	12,611	12,611
E.M.A.I. Corp., dba ESSROC Materials, Inc.	2	117,107	117,107
General Clay Products Corp.	2	43,658	43,658
Glen-Gery Corp.	1	174,759	174,759
Holmes Limestone Co.	1	6,671	6,671
Hydraulic Press Brick Co.	1	243,164	243,164
Janson's Soil Service, Inc.	1	50	50
Board of Knox County Commissioners	1	6,536	6,536
L & M Mineral Co.	2	53,496	53,496
London Tile Co.	1	1,224	1,224
M & M Builders Supply Co.	1	25,536	25,536
P & H Construction	1	2,500	2,500
Prairie Lane Sand & Gravel Co.	1	1,924	1,924
Richland Moulded Brick Co.	1	8,800	8,800
Rumpke Mountain Mining Co.	1	671,829	671,829
Stone Creek Brick Co.	1	6,605	6,605
Summitville Tiles, Inc.	1	37,413	37,413
Towne Square Products	1	1,100	1,100
Zollinger Sand & Gravel	1	10,000	10,000
TOTAL: 25 companies	33	1,768,532	1,763,295

1995 OHIO DIRECTORY OF SHALE-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

For those mines for which the Division of Mines has not assigned a state mine number, a letter designation is used (example: Kx-K).

County	Name of operator	Name of mine	Township	Geological unit	Principal use	State mine number
Ashland	London Tile Co.	Biglow	Ruggles	Bedford (Mississippian)	common clay products	Ald-1
Ashtabula	Janson's Soil Service, Inc.	Janson's Soil Service, Inc.	Morgan		other	Asa-14
Columbiana	Dome Minerals, Inc.	Dome Minerals, Inc.	Franklin		common clay products, paving	Ca-947
	M & M Builders Supply Co.	M & M Builders Supply Co.	Unity		other	Ca-970
	Summitville Tiles, Inc.	Summitville Tiles, Inc.	Franklin		common clay products	Ca-205
Coshocton	General Clay Products Corp.	Drescher Pit	Crawford	Lower Kittanning (Pennsylvanian)	common clay products	Cn-787
Cuyahoga	Hydraulic Press Brick Co.	Hydraulic Press Brick Co.	City of Independence	Chagrin (Devonian)	lightweight aggregate	Cya-19
Hamilton	Rumpke Mountain Mining Co.	Rumpke Mountain Mining Co.	Colerain		landfill use	Hmn-72
Harrison	Bowerston Shale Co.	Bowerston	Monroe	Conemaugh (Pennsylvanian)	vittrified products	Hn-152
Holmes	Holmes Limestone Co.	241 Plant	Hardy	Brookville & Vanport (Pennsylvanian)	common clay products	Hs-67
Knox	Board of Knox County Commissioners	Apple Valley	Brown		construction	Kx-K
Lawrence	P & H Construction	P & H Mine	Upper		construction	Le-PH
Licking	Bowerston Shale Co.	Hanover	Hanover	Logan (Mississippian)	vittrified products	Lg-501
Mahoning	E.M.A.I. Corp., dba ESSROC Materials, Inc.	Bessemer Pit	Poland	Vanport (Pennsylvanian)	cement manufacture	Mg-608
		Carbon Pit	Poland, Springfield		cement manufacture	Mg-EM
Marion	Glen-Gery Corp.	Iberia Quarry	Tully	Bedford (Mississippian)	common clay products	Mn-7
Medina	General Clay Products Corp.	General Clay Products Corp.	Wadsworth		common clay products	Ma-6
Muskingum	Dennis Clay Co.	Ohio Power	Newton		other	Mum-903
		Baker	Newton		other	Mum-DCC
Noble	Towne Square Products	Towne Square Products	Buffalo		common clay products	Ne-66
Richland	Richland Moulded Brick Co.	Richland Moulded Brick Co.	Franklin, Weller	Bedford (Mississippian)	vittrified products	Rd-R
Stark	American Landfill, Inc.	American Landfill, Inc.	Sandy	Lower & Middle Kittanning (Pennsylvanian)	landfill use	Sk-246
	Buckeye Industrial Mining Co.	Robertsville	Paris		vittrified products	Sk-BI
Tuscarawas	Belden Brick Co.	Wallick Pit	Franklin, Wayne	Brookville (Pennsylvanian)	common clay products	Ts-1841
		Moomaw Pit	Sugar Creek	Brookville & Tionesta (Pennsylvanian)	common clay products	Ts-1517
		Belden Pit	Sugar Creek	Brookville & Tionesta (Pennsylvanian)	common clay products	Ts-1646
		Shanesville Pit	Sugar Creek	Brookville (Pennsylvanian)	common clay products	Ts-1939
		Evans-Cox	Mill, Rush, Warwick		common clay products	Ts-1884
		Ridgeway	Rush		common clay products	Ts-2041
		Stone Creek Shale Pit	Jefferson		vittrified products	Ts-1558
Wayne	Craigton Shale Co.	Craigton Shale Co.	Clinton	Middle Kittanning (Pennsylvanian)	construction	We-25
	Prairie Lane Sand & Gravel Co.	Prairie Lane Sand & Gravel Co.	Franklin		construction	We-11
	Zollinger Sand & Gravel Co.	Zollinger Sand & Gravel Co.	Chippewa		construction	We-15

**1995 OHIO DIRECTORY OF SALT-MINE AND SALT-BRINING-PLANT OPERATORS
REPORTING SALES OR PRODUCTION, BY COUNTY**

County	Name of operator	Name of mine	Township	Geological unit and product	State mine number
Cuyahoga	Akzo Nobel Salt, Inc.	Cleveland Mine	City of Cleveland	Salina (Silurian) — rock salt	Cya-30
Lake	Morton International, Inc. Morton Salt Div.	Fairport Mine	Painesville	Salina (Silurian) — rock salt	Lke-6
Licking	R. H. Penick Co.	R. H. Penick Co.	Newark	"Newburg" (Silurian) — natural brine	Lg-45
Summit	Akzo Nobel Salt, Inc.	Akzo Nobel Salt, Inc.	Coventry	Salina (Silurian) — artificial brine	St-9127
Wayne	Morton International, Inc., Morton Salt Div.	Morton Salt Well Field	Milton	Salina (Silurian) — artificial brine	We-9129

1995 OHIO DIRECTORY OF GYPSUM-MINE OPERATORS REPORTING SALES OR PRODUCTION

County	Name of operator	Name of mine	Township	Geological unit	State mine number
Ottawa	Celotex Corp.	American #2	Portage	Silurian	Oa-2

1995 OHIO DIRECTORY OF PEAT-MINE OPERATORS REPORTING SALES OR PRODUCTION, BY COUNTY

County	Name of operator	Name of mine	Township	Type and principal use	State mine number
Champaign	Sphagnum Moss Peat Farm	Sphagnum Moss Peat Farm	Harrison	mulch	Cpn-9
Montgomery	Weidle Sand & Gravel, Inc.	Weidle Sand & Gravel, Inc.	German	mulch	My-41
Portage	Green Oaks Potting Products, Inc. Red Brush Peat Co.	Green Oaks Red Brush Peat Co.	Franklin Franklin	mulch, soil mix soil mix	Pe-89 Pe-61
Williams	Lingvai Peat Co.	Lingvai Peat Co.	Center	mulch	Ws-17

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 1995 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY**

COAL ● ○

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
3	Belmont	Bt-68	D-0360	Ohio Valley Coal Co.
19	Belmont	Bt-927	D-0483	Fairpoint Coal Co.
42	Belmont	Bt-1109	D-0270	Marietta Coal Co.
58	Belmont	Bt-1129	D-0491	Marietta Coal Co.
146	Harrison	Hn-217	D-0440	Varkony Mining Co.
150	Harrison	Hn-700	D-0826 et al.	Consolidation Coal Co.
161	Holmes	Hs-67	IM-3, IM-768	Holmes Limestone Co.
165	Jackson	Jkn-367	D-0205 et al.	Waterloo Coal Co., Inc.
180	Jefferson	Jfn-687	D-0404, D-0939	Weirton Construction Co.
186	Jefferson	Jfn-784	D-0091, D-0728	F. & M. Coal Co.
189	Jefferson	Jfn-830	D-0983	Anthony Mining Co., Inc.
190	Jefferson	Jfn-789	D-0307	Anthony Mining Co., Inc.
205	Mahoning	Mg-65	D-0374	Thompson Bros. Mining Co.
212	Meigs, Vinton	Ms-293	D-0354, D-0463	Southern Ohio Coal Co.
213	Meigs	Ms-294	D-0355	Southern Ohio Coal Co.
215	Monroe	Me-4	D-0433	Quarto Mining Co. (Subsidiary of Consolidation Coal Co.)
228	Morgan	Ne-41	D-0215 et al.	Central Ohio Coal Co.
239	Perry	Py-317	D-0057 et al.	Crooksville Coal Co., Inc.
246	Stark	Sk-208	D-0827, D-1005, D-1015	ENZ, Inc.
248	Stark	Sk-217	D-0938, IM-750	Waste Management of Ohio, Inc.
258	Tuscarawas	Ts-540	Im-28	Zoar Mining Co.
261	Tuscarawas	Ts-1646	IM-44	Belden Brick Co.
262	Tuscarawas	Ts-1727	IM-9	Kimble Clay & Limestone Co.
264	Tuscarawas	Ts-1884	IM-6	L & M Mining Co.
267	Tuscarawas	Ts-1914	D-0701	L & M Mineral Co.
300	Meigs, Vinton	Ms-293	D-0354, D-0463	Southern Ohio Coal Co.
326	Harrison	Hn-222	D-0587	Schiappa Coal Co., Inc.
357	Vinton	Vn-172	D-0445	Benedict, Inc.
363	Stark	Sk-235	IM-945, D-0865	Holmes Limestone Co.
391	Belmont	Bt-948	D-0348	R & F Coal Co.
418	Vinton	Vn-182	D-0631	R. A. Eberts Co., Inc.
419	Vinton	Vn-183	D-0633	Benedict, Inc.
420	Vinton	Vn-184	D-0609	Benedict, Inc.
424	Belmont	Bt-1150	D-0478, D-0597	Marietta Coal Co.
433	Tuscarawas	Ts-1991	D-0702	Daron Coal Co., Inc.
441	Columbiana	Ca-348	D-1002	D. & D. Mining Co.
450	Belmont	Bt-1162	D-0720	Marietta Coal Co.
452	Belmont	Bt-1164	D-0742	Marietta Coal Co.
456	Belmont	Bt-1168	D-0619	R & F Coal Co.
491	Lawrence	Le-B	IM-1188, D-0746	Belville Mining Co., Inc.
493	Noble	Ne-1008	D-0706	B & N Coal, Inc.
510	Tuscarawas	Ts-2007	D-0737	Red Malcuit, Inc.
513	Vinton	Vn-S	D-0793	Sands Hill Coal Co., Inc.
514	Noble	Ne-151	D-0807	B & N Coal, Inc.
519	Belmont	Bt-1179	D-0840	K.C.C.I.
529	Columbiana	Ca-349	D-0928	Buckeye Industrial Mining Co.
537	Harrison	Hn-MN	D-0772	R & F Coal Co.
555	Tuscarawas	Ts-2005	D-0769	Valley Mining, Inc.
564	Jackson, Vinton	Vn-192	D-0207, D-1016	R. A. Eberts Co., Inc.
568	Belmont	Bt-1188	D-0908	R & F Coal Co.
570	Belmont	Bt-771	D-0771	Marietta Coal Co.
577	Coshocton	Cn-RF	D-0689	R & F Coal Co.
580	Harrison	Hn-710	D-0426	Harrison Mining Corp.
598	Tuscarawas	Ts-2019	D-0852	Kimble Clay & Limestone Co.
600	Tuscarawas	Ts-2022	D-0878	Kimble Clay & Limestone Co.
601	Tuscarawas	Ts-2023	D-0796	Holmes Limestone Co.
602	Vinton	Vn-191	D-0867, D-0957, D-1004	Addington, Inc., Waterloo Coal Co., Inc.
603	Belmont	Bt-1190	IM-1089, D-1061	Frank Widmor Coal Co.
604	Belmont	Bt-AT	D-0922	Marietta Coal Co.
621	Harrison	Hn-240	D-0917	Sunnydale Mining
623	Jackson	Jkn-1069	D-0944	Sands Hill Coal Co., Inc.
626	Noble	Ne-154	D-0900	B & N Coal, Inc.
627	Noble	Ne-155	D-0958	B & N Coal, Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 1996 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY – Continued**

COAL – Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
631	Stark	Sk-246	D-1090	American Landfill, Inc.
634	Tuscarawas	Ts-1939	IM-47	Belden Brick Co.
636	Tuscarawas	Ts-2040	D-0935	Miller Mining, Inc., Toronto A & L Coal, Inc.
637	Tuscarawas	Ts-GC	D-0962, D-0967	Miller Mining, Inc.
638	Tuscarawas	Ts-2037	D-0921	Kimble Clay & Limestone Co.
646	Columbiana	Ca-986	D-0975, D-1111	C & E Coal, Inc.
648	Guernsey	Gy-315	D-0951	Northshore Coal, Inc.
649	Guernsey	Gy-C	D-0910	C L A Coal Co.
652	Jackson	Jkn-1070	D-0997, D-1115	R.A. Eberts Co., Inc., Stewart Coal Co.
657	Jefferson	Jfn-823	D-0949	Sterling Mining Co.
663	Perry	Py-A	D-0931	Avis Coal Co.
666	Stark	Sk-249	D-0960	Buckingham Mining & Reclamation, Inc.
667	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
670	Tuscarawas	Ts-2045	D-1001	Holmes Limestone Co.
671	Tuscarawas	Ts-DC	D-0954	Daron Coal Co., Inc.
673	Tuscarawas	Ts-2038	D-0965	Holmes Limestone Co.
674	Tuscarawas	Ts-HLC	D-0969	Holmes Limestone Co.
676	Wayne	We-26	IM-690, IM-1210	Rash Energy, Inc.
680	Tuscarawas	Ts-HC	D-0981	Holmes Limestone Co.
686	Carroll	Cl-HM1	D-1035	Myers Mining
688	Columbiana	Ca-CM	D-0999	Commercial Minerals
691	Coshocton	Cn-P	D-1027	R & F Coal Co.
692	Coshocton	Cn-RF1	D-1012	R & F Coal Co.
695	Coshocton	Cn-841	D-1033	R & R Minerals, Inc.
696	Guernsey	Gy-318	D-1025	Valley Mining, Inc.
704	Holmes	Hs-525	D-1044	Miller Mining, Inc.
705	Jackson	Jkn-1007	IM-24, D-0813	Cedar Heights Clay Co.
706	Jackson	Jkn-CH	IM-1060	Cedar Heights Clay Co.
708	Jefferson	Jfn-829	D-1006	Anthony Mining Co., Inc.
712	Jefferson	Jfn-SD	D-0677	S. & D. Construction Corp.
714	Jefferson	Jfn-833	D-1049	Valley Mining, Inc.
716	Muskingum	Mum-O	D-1030	Oxford Mining Co., Inc.
718	Stark	Sk-BI	D-1043	Buckeye Industrial Mining Co.
719	Stark	Sk-HLC	D-0987, D-1053	Holmes Limestone Co.
720	Tuscarawas	Ts-1841	IM-45	Belden Brick Co.
722	Tuscarawas	Ts-2042	D-0993	Sugarcreek Clay & Limestone, Inc.
725	Tuscarawas	Ts-2039	D-1023	Miller Mining, Inc.
727	Belmont	Bt-CCC	D-1080	Cravat Coal Co.
730	Belmont	Bt-M2	D-1029	Marietta Coal Co.
731	Belmont	Bt-RF2	D-1062	R & F Coal Co.
732	Belmont	Bt-VM	D-1059	Valley Mining, Inc.
733	Carroll, Columbiana	Ca-1000	D-1055	Buckeye Industrial Mining Co.
734	Carroll	Cl-514	D-1081	Miller Mining, Inc.
735	Columbiana	Ca-350	D-1078	Oldtown Coal Co.
736	Columbiana	Ca-997	D-1051	Commercial Minerals, Inc.
737	Columbiana	Ca-998	D-1068	Commercial Minerals, Inc.
738	Columbiana	Ca-999	D-1074	Buckeye Industrial Mining Co.
740	Coshocton	Cn-H1	D-1094	Holmes Limestone Co.
741	Coshocton	Cn-OX1	D-1064, D-1113	Oxford Mining Co., Inc.
742	Coshocton	Cn-RF3	D-1071	R & F Coal Co.
743	Coshocton	Cn-WL	D-1060	R & F Coal Co.
744	Guernsey	Gy-324	D-0748	Northshore Coal, Inc.
745	Guernsey	Gy-327	D-1088	Holmes Limestone Co.
746	Harrison	Hn-757	D-1054	Myers Mining
748	Harrison	Hn-759	D-1037	Melvin Schaney
749	Harrison	Hn-761	D-1082, D-1097	Sunnydale Mining
750	Harrison	Hn-RF1	D-1076	R & F Coal Co.
751	Harrison	Hn-WB	D-1046	W.B. Coal Co., Inc.
752	Holmes	Hs-524	D-1072	Miller Mining, Inc.
753	Holmes	Hs-HLC1	D-1092	Holmes Limestone Co.
755	Jackson	Jkn-S1	D-1031	Sands Hill Coal Co., Inc.
756	Jefferson	Jfn-A	D-1063	Anthony Mining Co., Inc.
757	Jefferson	Jfn-JC	D-1067	Joyce Coal Co., Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 1995 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY – Continued**

COAL – Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
758	Jefferson	Jfn-ST	D-1019	Sterling Mining Co.
759	Lawrence	Le-BM	D-1057, D-1073	Belville Mining Co., Inc.
760	Noble	Ne-BN	D-1038	B & N Coal, Inc.
761	Noble	Ne-BN1	D-1032	B & N Coal, Inc.
762	Perry	Py-BM1	D-1089	Buckingham Mining & Reclamation, Inc.
763	Perry	Py-BM2	D-1093	Buckingham Mining & Reclamation, Inc.
764	Perry	Py-O	D-1086	Oxford Mining Co., Inc.
766	Tuscarawas	Ts-DCC	IM-1075	Daron Coal Co., Inc.
767	Tuscarawas	Ts-MM2	D-1077	Miller Mining, Inc.
768	Tuscarawas	Ts-MM3	D-1085	Miller Mining, Inc.
769	Carroll	Cl-BIM	D-1107	Buckeye Industrial Mining Co.
770	Columbiana	Ca-BIM	D-1112	Buckeye Industrial Mining Co.
771	Columbiana	Ca-CM	D-0950	Commercial Minerals, Inc.
772	Coshocton	Cn-OM	D-1104	Oxford Mining Co., Inc.
773	Guernsey	Gy-317	D-1011	Sugarcreek Clay & Limestone, Inc.
774	Harrison	Hn-762	D-1100	Miller Mining, Inc.
775	Harrison	Hn-766	D-1041	Schiappa Coal Co., Inc.
776	Harrison	Hn-C	D-1098	Cravat Coal Co.
777	Holmes	Hs-HL	D-1109	Holmes Limestone Co.
778	Jackson	Jkn-SHCC	D-1108	Sands Hill Coal Co., Inc.
779	Stark	Sk-HCC	D-1106	Holmes Limestone Co.
780	Tuscarawas	Cn-TS	D-1110	Miller Mining Co.
781	Tuscarawas	Ts-2031	D-0963	Kimble Clay & Limestone Co.
782	Tuscarawas	Ts-2046	D-1056	J.E. Ziegler Dozer Service
783	Tuscarawas	Ts-520	IM-214	Blue Jay Enterprises, Inc.
784	Tuscarawas	Ts-K4	D-1079	Kimble Clay & Limestone, Co.
785	Tuscarawas	Ts-RF	D-1101	R & F Coal Co.
786	Vinton	Vn-177	D-0971	Benedict, Inc.
787	Gallia	Ga-629	D-1095	Sands Hill Coal Co., Inc.

COAL-PREPARATION PLANTS

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
3	Belmont	Bt-936	D-0216	Marietta Coal Co.
4	Belmont	Bt-68	D-0360	Ohio Valley Coal Co.
5	Columbiana	Ca-879	D-0806	Buckeye Industrial Mining Co.
6	Columbiana	Ca-892	D-0599	C & E Coal, Inc.
7	Coshocton	Cn-810		Conesville Coal Preparation Co.
8	Harrison	Hn-212	D-0192	Consolidation Coal Co.
9	Jackson	Jkn-1055	D-0347	Sands Hill Coal Co., Inc.
10	Jackson	Jkn-367	D-0285	Waterloo Coal Co., Inc.
12	Jefferson	Jfn-647	D-0492	Ohio Coal & Construction Corp.
13	Mahoning	Mg-623	D-0214	East Fairfield Coal Co.
14	Meigs	Ms-293	D-0354	Southern Ohio Coal Co.
15	Monroe	Me-4	D-0422	Quarto Mining Co. (subsidiary of Consolidation Coal Co.)
16	Morgan	Ne-41	D-0420	Central Ohio Coal Co.
18	Perry	Py-317	D-0248	Crooksville Coal Co., Inc.
20	Tuscarawas	Ts-1938	D-2064	Central Fuel Co.
21	Tuscarawas	Ts-1942	D-0287	Horizon Coal Corp.
22	Vinton	Vn-145	D-0159	Benedict, Inc.
24	Vinton	Vn-641	D-0169	Sands Hill Coal Co., Inc.
27	Wayne	Hs-79	D-0283	Holmes Limestone Co.
29	Columbiana	Ca-932	D-0532	Buckeye Industrial Mining Co.
30	Harrison	Hn-169	D-0424	Harrison Processing Corp.
32	Tuscarawas	Ts-HC	D-0981	Horizon Coal Corp.
33	Columbiana	Ca-505	D-0223	State Line Resources, Inc.
34	Guernsey	Gy-320		Thompson Mining Co.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 1995 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY — Continued**

LIMESTONE/DOLOMITE ■

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
1	Adams	Ads-1	IM-237	Davon, Inc.
3	Allen	An-1	IM-485	Bluffton Stone Co.
5	Allen	An-3	IM-484	National Lime & Stone Co.
7	Allen	An-4	IM-491	Suever Stone Co., Inc.
9	Athens	As-533	IM-17	R.A. Eberts Co., Inc.
10	Auglaize	Ae-31	IM-744	Con-Ag, Inc.
11	Auglaize	Ae-10	IM-486	National Lime & Stone Co.
12	Belmont	Bt-716	IM-1	Ayers Limestone Quarry, Inc.
16	Clark	Ck-1	IM-373	American Aggregates Corp.
17	Clinton	Cln-1	IM-241	Melvin Stone Co.
18	Crawford	Cd-1	IM-404	National Lime & Stone Co.
19	Darke	Dke-1	IM-362	American Aggregates Corp.
20	Delaware	Del-4	IM-262	American Aggregates Corp.
21	Delaware	Del-5	IM-207	National Lime & Stone Co.
22	Delaware	Del-3	IM-327	American Aggregates Corp.
23	Delaware	Del-2	IM-299	Penry Stone Co.
24	Erie	Ee-27	IM-608	Erie Blacktop, Inc.
25	Erie	Ee-11	IM-263	Rogers Group, Inc. (dba Sandusky Crushed Stone Co.)
26	Erie	Ee-1	IM-310	Wagner Quarries Co.
27	Fayette	Fe-2	IM-169	American Aggregates Corp.
28	Fayette	Fe-1	IM-831	Melvin Stone Co.
29	Fayette	Fe-3	IM-329	American Aggregates Corp.
30	Franklin	Fn-2	IM-261	American Aggregates Corp.
31	Franklin	Fn-53	IM-185	American Aggregates Corp.
32	Greene	Ge-17	IM-435	American Aggregates Corp.
33	Clark, Greene	Ge-1	IM-393	Southwestern Portland Cement Co.
34	Greene	Ge-9	IM-364	Southwestern Portland Cement Co.
38	Hardin	Hdn-2	IM-443	Hardin Quarry Co., Inc.
41	Highland	Hd-2	IM-230	Davon, Inc.
42	Highland	Hd-3	IM-253	Ohio Asphaltic Limestone Corp.
43	Highland	Hd-4	IM-406	Marshall Quarry, Inc.
44	Holmes	Hs-67	IM-768	Holmes Limestone Co.
47	Jackson	Jkn-367	IM-774	Waterloo Coal Co., Inc.
49	Logan	Lgn-1	IM-574	American Aggregates Corp.
50	Logan	Lgn-15	IM-453	C. E. Duff & Son, Inc.
51	Logan	Lgn-2	IM-494	Northwood Stone & Asphalt Co.
52	Lucas	Ls-1	IM-575	The France Stone Co.
53	Lucas	Ls-3	IM-580	The France Stone Co.
54	Lucas	Ls-2	IM-503	Stoneco, Inc.
56	Mahoning	Mg-54	IM-93	Honey Creek Stone Co.
57	Mahoning	Mg-608	IM-4	E.M.A.I. Corp.
59	Marion	Mn-2	IM-423	J. M. Hamilton & Sons Co., Inc.
60	Marion	Mn-3	IM-168	National Lime & Stone Co.
61	Marion	Mn-1	IM-250	Tri-County Limestone Co.
62	Mercer	Mr-1	Im-592	Stoneco, Inc.
63	Mercer	Mr-2	IM-430	Morrow Gravel Co.
64	Miami	Mi-1	IM-382	Piqua Materials, Inc.
66	Miami	Mi-502	IM-414	Barrett Paving Materials, Inc.
67	Miami	Mi-10	IM-335	C. F. Poeppelman, Inc.
70	Montgomery	My-1	IM-374	American Aggregates Corp.
71	Montgomery	My-23	IM-368	American Aggregates Corp.
72	Montgomery	My-58	IM-330	Southwestern Portland Cement Co.
73	Morgan	Mon-600	D-1034	Central Ohio Coal Co.
75	Muskingum	Mum-106	IM-297	Chesterhill Stone Co.
78	Muskingum	Mum-104	IM-277	Sidwell Bros., Inc.
80	Noble	Ne-86	IM-70	Zerger's Quarry
82	Ottawa	Oa-6	IM-296	White Rock Quarry, L.P., Division of U.S. Aggregates, Inc.
83	Ottawa	Oa-14	IM-320	Stoneco, Inc.
84	Ottawa	Oa-7	IM-440	Standard Lafarge
85	Ottawa	Oa-1	IM-292	GenLime Group, L.P.
86	Paulding	Pg-7		The France Stone Co.
87	Paulding	Pg-1	IM-513	Lafarge Corp.
88	Paulding	Pg-2	IM-481	Stoneco, Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
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LIMESTONE/DOLOMITE – Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
89	Perry	Py-235	IM-11, IM-515	Maxville Quarries, Inc.
91	Pike	Pke-13	IM-213	Latham Limestone, Inc.
92	Pickaway	Pky-4	IM-209	Melvin Stone Co.
95	Preble	Pre-5	IM-447	Wysong Stone Co.
98	Putnam	Pm-2	IM-570	Putnam Stone Co.
101	Sandusky	Sy-5	IM-259	Gottron Bros. Co.
102	Sandusky	Sy-1	IM-537	Martin Marietta Magnesia Specialties, Inc.
103	Sandusky	Sy-4	IM-381	Redland Ohio, Inc.
104	Sandusky	Sy-3	IM-282	Redland Ohio, Inc.
106	Seneca	Sa-2	IM-352	Premier Services Corp.
107	Seneca	Sa-1	IM-347	The France Stone Co.
108	Seneca	Sa-3	IM-349	The France Stone Co.
109	Seneca	Sa-8	IM-313	North Shore Stone Quarries, Inc.
110	Shelby	Shy-6	IM-389	Miami River Stone Co.
111	Shelby	Shy-16	IM-411	Sidney Sand & Gravel Co.
112	Shelby	Shy-15	IM-387	Spring Creek Corp.
117	Tuscarawas	Ts-1818	IM-9	Kimble Clay & Limestone Co.
119	Union	Un-1	IM-208	Northwood Stone & Asphalt Co.
120	Union	Un-2	IM-236	Union Aggregates Co.
121	Van Wert	Vt-3	IM-495	Stoneco, Inc.
122	Van Wert	Vt-7	IM-642	Ridge Township Quarry
123	Van Wert	Vt-1	IM-500	Suever Stone Co., Inc.
124	Vinton	Vn-174	D-0309	G & M Supply, Inc. (dba Clinton Stone, Inc.)
129	Wood	Wd-5	IM-473	Custar Stone Co.
130	Wood	Wd-1	IM-548	MacRitchie Materials, Inc.
131	Wood	Wd-6	IM-480	Stoneco, Inc.
132	Wood	Wd-11	IM-475	Stoneco, Inc.
133	Wyandot	Wt-3	IM-298	McCarthy Stone Quarry
134	Wyandot	Wt-1	IM-405	National Lime & Stone Co.
135	Wyandot	Wt-8	IM-273	Wyandot Dolomite, Inc.
142	Greene	Ge-25	IM-437	American Aggregates Corp.
143	Montgomery	My-32	IM-1012	American Aggregates Corp.
144	Muskingum	Mum-269	IM-1009	Salt Creek Materials, Inc.
147	Guernsey, Muskingum	Gy-309	IM-1030	King Limestone, Inc.
148	Vinton	Vn-190	D-0761	Quality Stone Co.
149	Hancock	Hk-7	IM-1002	National Lime & Stone Co.
152	Belmont	Bt-1190	IM-1089	Frank Widmor Coal Co., Inc.
153	Coshocton	Cn-A	IM-1011	Jim Romig Excavating
154	Franklin	Fn-43	IM-188	Olen Corp.
155	Greene	Ge-45	IM-364	American Aggregates Corp.
156	Hardin	Hdn-S	IM-1034	C. E. Duff & Son, Inc.
158	Jackson	Jkn-SH	IM-1068	Sands Hill Coal Co., Inc.
159	Lawrence	Le-B	IM-1188, D-0746	Belville Mining Co., Inc.
160	Lucas	Ls-12	IM-953	Barrett Paving Materials, Inc.
161	Mahoning	Mg-629	IM-1008	Blum Mining Co.
162	Mahoning	Mg-EM	IM-1056	E.M.A.I. Corp.
163	Monroe	Me-C	IM-1088	Christman Quarry
164	Monroe	Me-509	IM-1094	Rubel Quarry, Inc.
166	Muskingum	Ne-C	D-0820	Central Ohio Coal Co.
167	Noble	Ne-S	IM-913	Sharon Stone Co.
168	Perry	Py-343	IM-1061	Maxville Quarries, Inc.
169	Tuscarawas	Ts-2024	IM-1087	Green Basin Coal, Inc.
170	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
171	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
173	Adams	Ads-H	IM-805	Holloway Sand & Gravel Co., Inc.
174	Erie	Ee-K	IM-727	Kellstone, Inc.
175	Highland	Hd-D	IM-1170	Martin Marietta Aggregates
176	Jefferson, Harrison	Jfn-K	IM-1164	K.C.C.I.
177	Miami	Mi-BPM	IM-1169	Barrett Paving Materials, Inc.
178	Montgomery	My-Q	IM-860	Quarry Trails
179	Noble	Ne-B	IM-897	B & N Coal, Inc.
180	Ottawa	Oa-18	IM-635	Fox Stone Products, Inc.
181	Tuscarawas	Ts-B	IM-49	Belden Brick Co.

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LIMESTONE/DOLOMITE — Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
182	Vinton	Vn-193		Quality Stone Co.
183	Wood	Wd-14	IM-1157	Precision Aggregate, Inc.
184	Adams	Ads-BN	IM-1195	Davon, Inc.
185	Muskingum	Mum-907	IM-1200	Pleasant Valley Limestone
186	Muskingum	Mum-SB	IM-1212	Sidwell Bros., Inc.
187	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
188	Lucas	Ls-13	IM-492	Seaway Sand & Stone, Inc.
189	Guernsey	Gy-326	IM-1244	Red Hill Farm
190	Tuscarawas	Ts-2047	IM-1224	Sugarcreek Clay & Limestone, Inc.
191	Tuscarawas	Ts-BB	IM-1221	Belden Brick Co.
192	Columbiana	Ca-BIM	IM-1271	Buckeye Industrial Mining Co.
193	Hamilton	Hmn-72	IM-1264	Rumpke Mountain Mining Co.
194	Noble	Ne-K	IM-1254	King Quarries, Inc.

SAND AND GRAVEL DREDGING OPERATION △

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
1		Ee-D		Erie Sand & Gravel Co.
2		Lke-D		Osborne Materials Co.

SAND AND GRAVEL ▲

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
2	Allen	An-15	IM-721	Ward Materials, Inc.
6	Ashland	Ald-9	IM-0745	Ries Sand & Gravel
8	Ashland	Ald-7	IM-392	Young's Sand & Gravel Co.
9	Ashtabula	Asa-10	IM-198	Frye Sand & Gravel, Inc.
10	Ashtabula	Asa-14	IM-563	Janson's Soil Service, Inc.
14	Ashtabula	Asa-12	IM-1130	Nelson Sand & Gravel, Inc.
15	Ashtabula	Asa-15	IM-783	R. W. Sidley, Inc.
19	Athens	As-588	IM-630	Black Top Contracting, Inc.
21	Athens	As-1161	IM-97	Lake Hope Asphalt, Inc.
23	Auglaize	Ae-23	IM-508	Joseph Sand & Gravel, Inc.
24	Auglaize	Ae-30	IM-598	National Lime & Stone Co.
25	Auglaize	Ae-16	IM-595	Quality Ready Mix, Inc.
26	Belmont	Bt-74	IM-288	Tri-State Asphalt Productions
28	Butler	Br-36	IM-649	Bill D. Colwell
29	Butler	Br-5	IM-153	American Aggregates Corp.
30	Butler	Br-35	IM-200	American Aggregates Corp.
31	Butler	Br-48	IM-562	Broshear Contractors, Inc.
32	Butler	Br-50	IM-739	Dingledine Basic Materials, Inc.
33	Butler	Br-14	IM-147	Martin Marietta Aggregates
34	Butler	Br-29	IM-149	Martin Marietta Aggregates
37	Butler	Br-40	IM-493	Gaston Bowling, Inc.
38	Butler	Br-52	IM-814	Shamrock Materials, Inc.
39	Butler	Br-15	IM-316	Mecco, Inc.
41	Butler	Br-6	IM-177	Weidle Sand & Gravel, Inc.
42	Butler	Br-3	IM-719	The Gravel Co.
44	Butler	Br-47	IM-111	Watson Gravel, Inc.

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SAND AND GRAVEL – Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
45	Butler	Br-38	IM-218	Welch Sand & Gravel, Inc.
47	Carroll	Cl-204	IM-554	Oneida Sand & Gravel, Inc.
48	Champaign	Cpn-1	IM-371	American Aggregates Corp.
49	Champaign	Cpn-21	IM-616	D & W Sand & Gravel
50	Champaign	Cpn-22	IM-889	Mechanicsburg Sand & Gravel, Inc.
51	Champaign	Cpn-20	IM-482	Moore's Excavating Co.
52	Clark	Ck-13	IM-366	American Aggregates Corp.
54	Clark	Ck-502	IM-375	Demmy Sand & Gravel
57	Clark	Ck-3	IM-463	Hilltop Basic Resources, Inc. (dba Enon Washed Sand & Gravel Co.)
58	Clark	Ck-25	IM-358	Springfield Sand & Gravel Co.
59	Clermont	Ct-9	IM-526	Barrett Paving Materials, Inc.
61	Clermont	Ct-7	IM-432	Kipp's Gravel Co., Inc.
68	Columbiana	Ca-881	IM-611	X L Sand & Gravel
69	Coshocton	Cn-718	IM-227	Apache Aggregate & Paving Co.
70	Coshocton	Cn-783	IM-717	Apache Aggregate & Paving Co.
71	Coshocton	Cn-694	IM-293	Boyd Gravel Co.
72	Coshocton	Cn-624	IM-243	Sugarcreek Clay & Limestone, Inc.
75	Crawford	Cd-3	IM-693	Gibson Sand & Gravel Co.
80	Darke	Dke-4	IM-433	Fouremans Sand & Gravel, Inc.
81	Darke	Dke-10	IM-326	Tom Hollinger Excavating
82	Defiance	De-2	IM-765	Hillsdale Sand & Gravel, Inc.
83	Erie	Ee-18	IM-676	Erie Materials, Inc.
84	Erie	Ee-29		Jarrett Sand Co.
85	Erie	Ee-5		Keener Sand & Clay Co.
91	Fairfield	Fd-12	IM-451	Davis Sand & Gravel
92	Fairfield	Fd-13	IM-848	Lancaster Sand & Gravel Co.
94	Franklin	Fn-36	IM-302	Agg Rok Materials (Division of Wapak Sand & Gravel Co.)
95	Franklin	Fn-6	IM-185	American Aggregates Corp.
96	Franklin	Fn-23	IM-183	American Aggregates Corp.
97	Franklin	Fn-14	IM-832	Big Walnut Sand & Gravel, Inc.
98	Franklin	Fn-52	IM-191	J P Sand & Gravel Co.
100	Franklin	Fn-11	IM-234	Mason's Sand & Gravel Co.
101	Franklin	Fn-24	IM-266	S & S Aggregate, Inc.
102	Franklin	Fn-43	IM-188	Olen Corp.
108	Geauga	Gea-29	IM-215	Haueter Sand & Gravel, Inc.
109	Geauga	Gea-35	IM-321	Teague Gravel Co., Inc.
110	Greene	Ge-33	IM-379	American Aggregates Corp.
112	Clark, Greene	Ge-4	IM-394	Hilltop Basic Resources, Inc.
115	Greene	Ge-36	IM-305	Phillips Sand & Gravel
117	Greene	Ge-10	IM-518	Xenia Sand, Gravel, & Asphalt Co.
118	Hamilton	Hmn-37	IM-170	American Aggregates Corp.
119	Hamilton	Hmn-AAC	IM-716	American Aggregates Corp.
120	Hamilton	Hmn-54	IM-710	Ashcraft Sand & Gravel, Inc.
121	Hamilton	Hmn-44	IM-120	Crosby Gravel
123	Hamilton	Hmn-50	IM-205	James Bunnell, Inc.
124	Hamilton	Hmn-59	IM-815	James Bunnell, Inc.
126	Hamilton	Hmn-3	IM-137	Martin Marietta Aggregates
127	Hamilton	Hmn-5	IM-148	Martin Marietta Aggregates
128	Hamilton	Hmn-11, Hmn-70	IM-133	Dravo Basic Materials Co., Inc.
130	Hamilton	Hmn-64	IM-821	Martin Marietta Aggregates
131	Hamilton	Hmn-68	IM-747	Martin Marietta Aggregates
132	Hamilton	Hmn-46	IM-396	Eaton Sand & Gravel Co.
134	Hamilton	Hmn-71	IM-771	Powell Gravel & Topsoil, Inc.
135	Hamilton	Hmn-17	IM-295	Harrison Sand & Gravel Co.
137	Hamilton	Hmn-67	IM-529	Leonard Sand & Gravel
139	Hamilton	Hmn-10	IM-226	Rack Sand, Inc.
141	Hamilton	Hmn-28	IM-353	The Gravel Co.
142	Hamilton	Hmn-60	IM-761	Watson Gravel, Inc.
143	Hamilton	Hmn-42	IM-823	Welch Sand & Gravel, Inc.
144	Hamilton	Hmn-48	IM-220	Welch Sand & Gravel, Inc.
147	Henry	Hy-5		Gerken Materials, Inc.
151	Hocking	Hg-262	IM-41	Hocking Valley Concrete, Inc.

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SAND AND GRAVEL — Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
152	Hocking	Hg-301	IM-458	Muskingum River Gravel Co.
153	Holmes	Hs-82	IM-707	Menuet Bros. Sand & Gravel, Inc.
154	Holmes	Hs-511	IM-1048	Feikert Sand & Gravel, Inc.
157	Huron	Hrn-1	IM-550	Rogers Group, Inc. (dba Norwalk Sand & Gravel)
160	Knox	Kx-7	IM-235	Goodwin Sand & Gravel, Inc.
161	Knox	Kx-16	IM-793	Olen Corp.
162	Knox	Kx-5	IM-884	Mickley Gravel Co.
163	Knox	Kx-3	IM-300	Sant Sand & Gravel, Inc.
165	Knox	Kx-15	IM-967	Small's Sand & Gravel, Inc.
166	Lake	Lke-7	IM-162	R. W. Sidley, Inc.
167	Lawrence	Le-430	IM-844	Becky Lane Trucking, Inc.
170	Lawrence	Le-426	IM-856	Burlington Sand & Gravel Co.
174	Licking	Lg-2	IM-184	Doug Mill
176	Licking	Lg-31	IM-246	Dry Creek Gravel Co.
177	Licking	Lg-DC	IM-354	Dry Creek Gravel Co.
179	Licking	Lg-10	IM-217	Van Wey Sand & Gravel, Inc.
180	Licking	Lg-15		Walter's Gravel
182	Logan	Lgn-31	IM-454	C. E. Duff & Son, Inc.
183	Logan	Lgn-39	IM-887	C. E. Duff & Son, Inc.
189	Logan	Lgn-6	IM-459	Neer's Sand & Gravel
191	Lorain	Ln-12	IM-731	Guy Schieve
195	Lucas	Ls-13	IM-492	Seaway Sand & Stone, Inc.
196	Mahoning	Mg-632	IM-808	Solomon's Mines, Inc.
197	Marion	Mn-16	IM-171	Scioto Sand & Gravel
198	Marion	Mn-4	IM-290	Penry Stone Co.
200	Marion	Mn-10	IM-196	Union Aggregates Co.
203	Medina	Ma-20	IM-448	Baker Sand, Inc.
206	Medina	Ma-22	IM-425, IM-650, IM-651	Seville Sand & Gravel, Inc.
208	Medina	Ma-16		Silchuk Gravel Co.
209	Meigs	Ms-205	IM-30	Martin Marietta Aggregates
211	Meigs	Ms-301	IM-619	Meigs County Commissioners
212	Meigs	Ms-298	IM-32	Richards & Son, Inc.
216	Miami	Mi-6	IM-356	American Aggregates Corp.
217	Miami	Mi-501		New Carlisle Sand & Gravel Co.
219	Miami	Mi-3	IM-462, IM-658	American Aggregates Corp.
220	Miami	Mi-8	IM-355	American Aggregates Corp.
221	Miami	Mi-9	IM-408	Wise Gravel
222	Miami	Mi-4	IM-472	Fenner Sand & Gravel, Inc.
224	Montgomery	My-66	IM-677	American Aggregates Corp.
225	Montgomery	My-65	IM-594	Brodaway Sand & Gravel, Inc.
229	Montgomery	My-68	IM-646	H & H Utilities Co.
232	Montgomery	My-19	IM-401, IM-916	Hilltop Basic Resources, Inc.
233	Montgomery	My-52	IM-348	Miller Bros. Gravel, Inc.
236	Montgomery	My-55	IM-571	Jimsco, Inc.
238	Montgomery	My-61	IM-468	Tipp Stone Co., Inc.
239	Montgomery	My-41	IM-360	Weidle Sand & Gravel, Inc.
240	Morgan	Mon-588	IM-35	Chesterhill Stone Co.
241	Morgan	Mon-599		Huck Farms
242	Morrow	Mw-10	IM-258	Chesterville Sand & Gravel Co., Inc.
243	Muskingum	Mum-863	IM-264	Boyd Gravel Co.
244	Muskingum	Mum-799	IM-317	Boyd Gravel Co.
247	Muskingum	Mum-228	IM-421	Muskingum River Gravel Co.
248	Muskingum	Mum-216	IM-689	Salt Creek Materials, Inc.
251	Pickaway	Pky-1	IM-409, IM-428	American Aggregates Corp.
252	Pike	Pke-26	IM-142	Valley Materials Co.
253	Pike	Pke-23	IM-242	Chattin Concrete
254	Pike	Pke-30	IM-786	South Central Sand & Gravel
255	Pike	Pke-24	IM-222	Piketon Sand & Gravel
256	Portage	Pe-50	IM-96	Beck Sand & Gravel, Inc.
257	Portage	Pe-15	IM-104	Karl Brugmann Sand & Gravel, Inc.
258	Portage	Pe-9	IM-119	Oscar Brugmann Sand & Gravel, Inc.
259	Portage	Pe-17	IM-123	Charlestown Sand & Gravel, Inc.
260	Portage	Pe-84	IM-868	Aurora Sand & Gravel, Inc.

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SAND AND GRAVEL – Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
261	Portage	Pe-45	IM-139	R. A. Cruise Sand & Gravel, Inc.
262	Portage	Pe-56	IM-127	Hilltop Aggregate, Inc.
264	Portage	Pe-10	IM-138	Hugo Sand Co.
265	Portage	Pe-63	IM-82	Jefferson Materials Co.
266	Portage	Pe-83	IM-179	Karg Sand & Gravel Co.
268	Portage	Pe-40	IM-190	Lakeside Sand & Gravel Co.
272	Portage	Pe-39	IM-174	Miller Sand & Gravel Co.
273	Portage	Pe-85	IM-700	Northern Ohio Materials, Inc.
274	Portage	Pe-60	IM-78	Schloss Materials Co.
275	Portage	Pe-18	IM-193	Sober Sand & Gravel Co.
276	Portage	Pe-36	IM-90	Solon Excavators Sand & Gravel, Inc.
277	Portage	Pe-68	IM-687, IM-1107	Standard Lafarge
278	Portage	Pe-SS1	IM-660	Standard Lafarge
280	Portage	Pe-64	IM-1017	Rainbow Sand & Gravel, Inc.
281	Portage	Pe-59	IM-210	S & S Aggregate, Inc.
282	Portage	Pe-67	IM-202	S & S Aggregate, Inc.
284	Preble	Pre-7	IM-306	Southern Ohio Aggregates
285	Preble	Pre-4	IM-477	Wysong Gravel Co.
286	Preble	Pre-6	IM-478	Wysong Gravel Co.
287	Richland	Rd-4	IM-279	D. H. Bowman & Sons, Inc.
289	Richland	Rd-18	IM-670	Ganges Gravel Co.
290	Richland	Rd-14	IM-436	John L. Garber Materials, Inc.
297	Ross	Rs-26	IM-922	Elm Spring Farm
303	Scioto	So-98	IM-474	E. E. Blair Construction Co.
304	Scioto	So-83	IM-211	Cunningham Asphalt Paving, Inc.
305	Scioto	So-78		Schilling Contractors, Inc.
306	Scioto	So-79	IM-221	ATS Enterprises
310	Shelby	Shy-12	IM-528	Fleckenstein Farm Gravel Pit
311	Shelby	Shy-17	IM-389	Miami River Stone Co.
312	Shelby	Shy-13	IM-412	Sidney Sand & Gravel Co.
314	Shelby	Shy-11	IM-743	Spring Creek Corp.
315	Shelby	Shy-18	IM-388	Spring Creek Corp.
316	Stark	Sk-N	IM-156	Northern Ohio Paving Co.
318	Stark	Sk-681	IM-164	Canton Aggregate
319	Stark	Sk-689	IM-173	Canton Aggregate
320	Stark	Sk-694	IM-858	A. J. Diana Sons, Inc.
323	Stark	Sk-688	IM-763	Heiser Sand & Gravel Co.
325	Stark	Sk-607	IM-102	Massillon Washed Gravel Co.
326	Stark	Sk-165	IM-192, IM-781	Oster Sand & Gravel, Inc.
327	Summit	St-52	IM-900	Flesher Sand & Gravel, Inc.
328	Summit	St-39	IM-983	Lerkis Asphalt Co., Inc.
333	Summit	St-24	IM-239	Riverside Sand & Gravel Co., Inc.
334	Summit	St-9	IM-167	Rubber City Sand & Gravel Co.
335	Summit	St-26	IM-803	Spring Valley Investments, Inc.
336	Summit	St-44	IM-178	S & S Aggregate, Inc.
340	Trumbull	Tl-12	IM-131	Samco, Inc.
343	Tuscarawas	Ts-1826	IM-88	Soehnen Bros. Sand & Gravel, Inc.
344	Tuscarawas	Ts-1771	IM-77	Spring Industries, Inc.
346	Tuscarawas	Ts-111	IM-55	Stewart & Reichman, Inc.
347	Tuscarawas	Ts-69	IM-51	Stocker Sand & Gravel Co.
348	Tuscarawas	Ts-125	IM-50	Stocker Sand & Gravel Co.
349	Warren	Wan-38	IM-615	American Aggregates Corp.
352	Warren	Wan-41	IM-629	Carl E. Oeder & Sons Sand & Gravel
356	Warren	Wan-47	IM-846	C & S Contractors, Inc.
363	Warren	Wan-10	IM-465	Watson Gravel Inc.
364	Washington	Wn-55	IM-669	Beverly Slag Co.
365	Washington	Wn-508	IM-57	Briggs Sand & Gravel, Inc.
367	Washington	Wn-38	IM-701	Muskingum River Gravel Co.
369	Washington	Wn-510	IM-25	Trout Sand & Gravel Co.
372	Wayne	We-11	IM-547	Prairie Lane Sand & Gravel Co.
373	Wayne	We-7	IM-471	Rupp Construction, Inc.
374	Wayne	We-15	IM-398	Zollinger Sand & Gravel Co.
375	Williams	Ws-6	IM-497	Stoneco, Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
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SAND AND GRAVEL — Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
376	Williams	Ws-9	IM-498	Stoneco, Inc.
377	Williams	Ws-11	IM-509, IM-661	Weber Sand & Gravel, Inc.
378	Williams	Ws-14	IM-614	Dennis Winzeler
379	Wyandot	Wt-4	IM-520	Precision Aggregate, Inc.
380	Wyandot	Wt-15	IM-376	National Lime & Stone Co.
381	Wyandot	Wt-18	IM-551	National Lime & Stone Co.
382	Wyandot	Wt-17	IM-604	Kirby's Sand & Gravel, Inc.
384	Summit	St-53	IM-874	Portage Lakes Sand & Gravel Co.
385	Clark	Ck-501	IM-340	Demmy Construction, Inc.
386	Stark	Sk-203	IM-654	American Sand & Gravel
387	Portage	Pe-ASG	IM-212	American Sand & Gravel
389	Tuscarawas	Ts-1976	IM-941, IM-942	Benco Leasing, Inc.
390	Miami	Mi-T	IM-696	Lloyd Fry
395	Scioto	So-100	IM-950	Scioto Valley Resources
401	Fairfield	Fd-14	IM-933	Paul D. Beery Trucking Co.
403	Greene	Ge-40	IM-923	Donald Martin Contracting
404	Greene	Ge-42	IM-954	American Aggregates Corp.
405	Greene	Ge-32	IM-400	American Aggregates Corp.
407	Hamilton	Hmn-69	IM-969	American Aggregates Corp.
408	Knox	Kx-17	IM-968	Small's Sand & Gravel, Inc.
409	Richland	Rd-20	IM-617	Bolin & Bartley, Inc.
412	Ashland	Ald-15	IM-944	Young's Sand & Gravel Co.
413	Ashtabula	Asa-18	IM-949	Simak Trucking, Inc.
415	Geauga	Gea-9	IM-132	Soltis Sand & Gravel
416	Holmes	Hs-96	IM-997	Jeff Chaney
417	Huron	Hrn-16	IM-975	Erie Blacktop, Inc.
419	Licking	Lg-504	IM-991	Gary Roberts Excavating
420	Logan	Lgn-36	IM-1007	C. E. Duff & Son, Inc.
423	Marion	Mn-19	IM-990	Fleming Construction Co., Inc.
424	Monroe	Me-508	IM-1000	Ohio-West Virginia Excavation
427	Summit	St-54	IM-934	R & S, Inc.
428	Tuscarawas	Ts-2001	IM-1004	Newton Asphalt
429	Warren	Wan-46	IM-679, IM-842	Paul N. Herdman
430	Warren	Wan-50	IM-1006	L & I Natural Resources, Inc.
432	Washington	Wn-54	IM-383	Atlas Towing Co.
435	Stark	Sk-173	IM-879	Allied Corp., Inc.
437	Clark	Ck-7	IM-449	City of Springfield
438	Coshocton	Cn-828	IM-1026	William Albert, Inc.
440	Gallia	Ga-626	IM-1046	Cremeans Concrete & Supply
441	Greene	Ge-38	IM-333	Watson Gravel, Inc.
442	Geauga	Gea-39	IM-1104	B-M Machine Co.
444	Logan	Lgn-12	IM-1193	C. E. Duff & Son, Inc.
446	Miami	Mi-12	IM-467	Tipp Stone Co., Inc.
447	Miami	Mi-504	IM-1032	Stillwater Sand & Gravel, Inc.
448	Muskingum	Mum-262	IM-422	Muskingum River Gravel Co.
449	Muskingum	Mum-899		Boyd Gravel Co.
451	Portage	Pe-89	IM-1142	Green Oaks Potting Products
452	Ross	Rs-M	IM-114	Muskingum River Gravel Co.
453	Stark	Sk-241	IM-582	Standard Lafarge
455	Stark	Sk-243	IM-908	American Sand & Gravel
458	Athens	As-595	IM-1083	Cochran Transportation Services, Inc.
459	Athens	As-W	IM-979	Olen Corp.
460	Butler	Br-S	IM-1053	Southern Ohio Aggregates, Inc.
461	Clark	Ck-28	IM-1100	Barrett Paving Materials, Inc.
463	Columbiana	Ca-982	IM-1108	Leetonia Sand & Gravel Co., Inc.
464	Columbiana	Ca-U	IM-999	United Builders Distributing Corp.
465	Franklin	Fn-58	IM-1023	Olen Corp.
466	Gallia	Ga-O	IM-1028	Ours Sand & Gravel
467	Hamilton	Hmn-AS	IM-1106	Allgeier & Son, Inc.
468	Hamilton	Hmn-D	IM-1079	Martin Marietta Aggregates
470	Holmes	Hs-J	IM-1043	S & S Transport, Inc.
472	Lucas	Ls-G	IM-1090	H. T. Griffin Excavating, Inc.
474	Madison	Mdn-11	IM-1063	Tuffco Sand & Gravel, Inc.

NUMERICAL INDEX OF OPERATORS OF MINES
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SAND AND GRAVEL — Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
475	Mahoning	Mg-630	IM-1091	Wallace Rd. Sand & Gravel
476	Mahoning	Mg-629	IM-1008	Blum Mining Co.
480	Pickaway	Pky-H	IM-1039	William A. Hoffman, Jr.
481	Pickaway	Pky-R	IM-993	Melvin Stone Co.
482	Portage	Pe-61	IM-1064	Red Brush Peat Co.
483	Portage	Pe-92	IM-522	Don Wartko Construction, Inc.
486	Portage	Pe-SE	IM-1096	Solon Excavators Sand & Gravel, Inc.
487	Portage	Pe-SS2	IM-1047	Standard Lafarge
488	Preble	Pre-9	IM-1095	Loxley Aggregates, Inc.
490	Ross	Rs-27	IM-1098	Chillicothe Sand & Gravel Co.
491	Ross	Rs-H	IM-1052	Haubeil & Sons Asphalt & Materials, Inc.
493	Shelby	Shy-S	IM-1005	Sidney Sand & Gravel Co.
494	Shelby	Shy-SC	IM-1018	Spring Creek Gravel Co., Inc.
495	Stark	Sk-M	IM-1031	Massillon Materials, Inc.
499	Trumbull	TI-K	IM-1101	Kleese Development Associates, Inc.
500	Tuscarawas	Ts-2018	IM-1076	Northern Ohio Materials, Inc.
501	Warren	Wan-M	IM-728, IM-1065	Morrow Gravel Co.
502	Warren	Wan-M1	IM-1051	Morrow Gravel Co.
503	Warren	Wan-M2	IM-837	Morrow Gravel Co.
504	Washington	Wn-1007	IM-1042	Mark Williams Blacktop Co., Inc.
506	Williams	Ws-T	IM-1022	Stoneco, Inc.
508	Ashland	Ald-G	IM-1121	David B. Good
509	Ashland	Ald-16	IM-1120	Bolin & Bartley, Inc.
510	Ashtabula	Asa-N	IM-1109	Nelson Sand & Gravel, Inc.
516	Delaware	Del-S	IM-1118	Michael B. Sayers
517	Geauga	Gea-N	IM-1123	Newbury Sand & Gravel
518	Geauga	Gea-TK	IM-902	T & K Kuhnle Co.
519	Hamilton	Hmn-B	IM-1139	James Bunnell, Inc.
520	Hamilton	Hmn-C	IM-1132	Nelson Stark Co.
521	Hamilton	Hmn-AS1	IM-797	Allgeier & Son, Inc.
523	Hocking	Hg-329	IM-1112	Kilbarger Construction, Inc.
526	Logan	Lgn-M	IM-799	Miller Bros. Construction, Inc.
528	Portage	Pe-SSC	IM-318	Sunshine Sand Co.
529	Portage	Pe-96	IM-792	Don's Dozer Service, Inc.
530	Ross	Rs-R	IM-1143	Ross County Gravel Co.
532	Tuscarawas	Ts-2029	IM-1129	Burrgett Industries, Inc.
533	Washington	Wn-1008	IM-1111	Grimes Excavating
534	Washington	Wn-1009	IM-525	Mark Williams Blacktop Co., Inc.
535	Wayne	We-23	IM-1136	Buckeye Excavating
536	Champaign	Cpn-24	IM-1167	Bill McKeever Excavating
537	Clermont	Ct-11	IM-665	Dravo Basic Material Co., Inc.
538	Columbiana	Ca-993	IM-1180	Willowbrook
539	Columbiana	Ca-351	IM-634	Inland South Aggregates
541	Fairfield	Fd-16	IM-1156	James E. Downard
542	Fulton	Ftn-S	IM-1146	Sandman Sand & Stone, Inc.
544	Gallia	Ga-J	IM-1145	Jaymar, Inc.
545	Geauga	Gea-H	IM-510	Haueter Sand & Gravel, Inc.
546	Greene	Ge-46	IM-1149	Don Thompson Excavating, Inc.
547	Greene	Ge-R	IM-829	Richards Service Garage
548	Greene	Ge-47	IM-751	M. J. Coates Construction Co.
549	Greene	Ge-W	IM-645	S & W Cement Construction, Inc.
550	Greene	Ge-G	IM-655	James D. Graham
551	Hamilton	Hmn-S	IM-746	Southern Ohio Aggregates, Inc.
552	Hamilton	Hmn-SO	IM-720	Southern Ohio Aggregates, Inc.
553	Hardin	Hdn-H	IM-864	Norman Harpster
554	Jefferson	Jfn-PE	IM-1162	Penn Eagle Coal Corp.
555	Knox	Kx-OC	IM-930	Olen Corp.
556	Lucas	Ls-MH	IM-1144	Sandman Sand & Stone, Inc.
557	Lucas	Ls-F	IM-1160	Craig Fankhauser
558	Medina	Ma-23	IM-1177	Friendsville Sand, L.P.
559	Meigs	Ms-L	IM-1159	Letart Corp.
560	Meigs	Ms-308	IM-1174	Letart Corp.
561	Montgomery	My-CW	IM-878	Carter & Carter, Inc.

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SAND AND GRAVEL — Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
562	Montgomery	My-R	IM-539	John P. Raisch, Inc.
563	Morgan	Mon-CSC	IM-1178	Chesterhill Stone Co.
564	Pickaway	Pky-D	IM-1150	Darby Gravel Co.
565	Pickaway	Pky-W	IM-1176	Gene T. Wilson
568	Portage	Pe-101	IM-1154	D & K Materials, Inc.
569	Portage	Pe-SP	IM-499	Schloss Materials Co.
570	Portage	Pe-L	IM-154	Lucky Sand & Gravel Co.
571	Preble	Pre-AAC	IM-779	American Aggregates Corp.
573	Ross	Rs-E	IM-1168	David E. Edington
574	Ross	Rs-RC	IM-925	Ross County Redi-Mix Co., Inc.
576	Scioto	So-B	IM-705	Boone Coleman Construction, Inc.
577	Shelby	Shy-SS	IM-438	Sidney Sand & Gravel Co.
578	Stark	Sk-MW	IM-1171	Massillon Washed Gravel Co.
579	Stark	Sk-W	IM-867	Ralph C. Wagner & Sons
581	Stark	Sk-R	IM-697	Oster Sand & Gravel, Inc.
582	Stark	Sk-SI	IM-588	Spring Industries, Inc.
583	Summit	St-50	IM-722	A-1 All Ohio Sand & Gravel Co.
584	Trumbull	Tl-16	IM-1158	Nick's Trucking
586	Tuscarawas	Ts-2036	IM-1155	Oster Sand & Gravel, Inc.
587	Tuscarawas	Ts-2049	IM-1151	Al Gasser Excavating, Inc.
588	Tuscarawas	Ts-SI	IM-569	Spring Industries, Inc.
589	Warren	Wan-7	IM-151	Embro, Inc.
590	Washington	Wn-1010	IM-1163	M & J Sand & Gravel, Inc.
591	Wyandot	Wt-K	IM-943	Kirby Sand & Gravel, Inc.
592	Ashtabula	Asa-22	IM-1214	Easton Resources, Inc.
593	Ashtabula	Asa-20	IM-1198	Kinsman Sand & Gravel Co.
595	Cuyahoga	Cya-42	IM-686	Boyas Excavating, Inc.
596	Hocking	Hg-G	IM-1201	Good Builders
597	Lake	Lke-C	IM-1215	Cashen, Inc.
598	Lake	Lke-D	IM-1187	DeMilta Sand & Gravel, Inc.
600	Licking	Lg-W	IM-1213	Geiger Sand & Gravel
602	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
603	Pickaway	Pky-AAC	IM-1204	Melvin Stone Co.
605	Portage	Pe-102	IM-1184	Brimfield Sand & Gravel
606	Ross	Rs-T	IM-1189	Tackett Builders
607	Stark	Sk-BE	IM-1202	Beaver Excavating, Inc.
608	Stark	Sk-HS	IM-1193	Heiser Sand & Gravel Co.
609	Stark	Sk-HS1	IM-1203	Heiser Sand & Gravel Co.
610	Stark	Sk-1017	IM-1186	National Aggregates, Inc.
611	Trumbull	Tl-C	IM-1190	Center West Enterprise, Inc.
612	Tuscarawas	Ts-A	IM-1218	Acme Sand & Gravel
613	Wayne	We-24	IM-1211	E. A. Construction, Inc.
614	Williams	Ws-20		Gerken Materials, Inc.
615	Portage	Pe-98	IM-1219	Johnson Rd. Sand & Gravel
616	Ashland	Ald-Y	IM-1216	Young's Sand & Gravel Co.
617	Ashtabula	Asa-21	IM-1239	Sunrise Sand & Gravel
619	Champaign	Cpn-25	IM-1227	T. K. Stone Co., Inc.
620	Clark	Ck-29	IM-1233	Moore's Excavating Co.
621	Coshocton	Cn-B	IM-1238	BRYCO
622	Fulton	Ftn-M	IM-1246	Al Mackey Enterprise, Inc.
623	Geauga	Gea-43	IM-1230	Solon Excavators Sand & Gravel, Inc.
624	Holmes	Hs-F	IM-1240	Feikert Sand & Gravel, Inc.
625	Lake	Lke-CIR	IM-1243	C.I.R., Inc.
626	Muskingum	Mum-J	IM-1229	Glen James & Sons, Inc.
627	Pickaway	Pky-C	IM-1223	Valley Sand & Gravel, Inc.
628	Portage	Pe-OB	IM-1241	Oscar Brugmann Sand & Gravel, Inc.
629	Richland	Rd-K	IM-1232	Leonard E. Kleilein
630	Scioto	So-102	IM-1250	T. T. & K. Construction, Inc.
631	Stark	Sk-CA	IM-1234	Canton Aggregate
632	Wayne	We-27	IM-1242	Valley Gravel Co.
633	Williams	Ws-21	IM-1225	Thiel Construction Co.
634	Williams	Ws-22	IM-1222	Heer Excavating, Inc.
635	Ashtabula	Asa-C	IM-1278	Clemson Excavating, Inc.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
636	Columbiana	Ca-S	IM-1258	Solomon's Mines, Inc.
637	Erie	Ee-27	IM-608	Erie Blacktop, Inc.
638	Fulton	Ftn-BL	IM-1260	B & L Excavating
639	Fulton	Ftn-M1	IM-1275	Al Mackey Enterprises, Inc.
640	Hamilton	Hmn-ARH	IM-1273	A. R. & H. Van Treese Partners
641	Hamilton	Hmn-G	IM-1270	Golsch Construction, Inc.
642	Hamilton	Hmn-JC	IM-1267	Joe E. Carter
643	Holmes	Hs-VH	IM-1263	John Van Horn Trucking
644	Knox	Kx-1	IM-269	Oglebay Norton Industrial Sands, Inc.
645	Lucas	Ls-H1	IM-1277	Hidden Harbour Partners
646	Lucas	Ls-M	IM-1261	Al Mackey Enterprises, Inc.
647	Morgan	Mon-L	IM-1266	Link Trucking Co.
648	Pickaway	Fn-C	IM-1265	Complete Resources Co.
649	Summit	St-C	IM-1251	Copley Shores Development

SANDSTONE/CONGLOMERATE ▼

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
4	Coshocton	Cn-13	IM-397	Briar Hill Stone Co.
5	Coshocton	Cn-659	IM-232	Briar Hill Stone Co.
6	Coshocton	Cn-686	IM-504	Briar Hill Stone Co.
7	Coshocton	Cn-692	IM-294	Briar Hill Stone Co.
8	Coshocton	Cn-695	IM-402	Briar Hill Stone Co.
13	Cuyahoga	Cya-42	IM-686	Boyas Excavating, Inc.
14	Erie	Ee-21	IM-416	Cleveland Quarries
17	Geauga	Gea-3	IM-89	Best Sand Corp.
18	Geauga	Gea-1	IM-163	R. W. Sidley, Inc.
19	Holmes	Hs-49	IM-418	Briar Hill Stone Co.
20	Huron	Hrn-8	IM-268	Mesenburg Bros., Inc.
23	Knox	Kx-12	IM-445	Briar Hill Stone Co.
24	Knox	Kx-1	IM-269	Oglebay Norton Industrial Sands, Inc.
27	Lorain	Ln-3	IM-415	Cleveland Quarries
30	Mahoning	Mg-62	IM-599	Gwin Contracting Co.
34	Ross	Rs-16	IM-172	Southern Silica, Inc.
36	Scioto	So-48	IM-140	Waller Bros. Stone Co.
37	Scioto	So-76	IM-141	Waller Bros. Stone Co.
38	Scioto	So-82	IM-158	Waller Bros. Stone Co.
41	Tuscarawas	Ts-1818	IM-9	Kimble Clay & Limestone Co.
42	Tuscarawas	Ts-1660	IM-68	U.S. Silica Co.
43	Washington	Wn-45	IM-125	Alan Stone Co., Inc.
44	Coshocton	Cn-815	IM-939	Briar Hill Stone Co.
45	Pike	Pke-31	IM-835	Best Sand Corp.
46	Coshocton	Cn-809	IM-909	Briar Hill Stone Co.
47	Columbiana	Ca-970	IM-1024	M & M Builders Supply Co.
48	Perry	Py-344	IM-1014	Oglebay Norton Industrial Sands, Inc.
49	Summit	St-24	IM-239	Riverside Sand & Gravel Co., Inc.
50	Geauga	Gea-N	IM-1123	Newbury Sand & Gravel
51	Belmont	Bt-1193	IM-1117	Alan Stone Co., Inc.
53	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
54	Tuscarawas	Ts-2032	IM-1141	Slankard Dozer Service, Inc.
55	Tuscarawas	Ts-1982	IM-621	L & M Mineral Co.
56	Belmont	Bt-1190	IM-1089	Frank Widmor Coal Co., Inc.
57	Columbiana	Ca-888	IM-1181	D. & D. Mining Co.
58	Geauga	Gea-S	IM-161	R. W. Sidley, Inc.
59	Jefferson	Jfn-PE	IM-1162	Penn Eagle Coal Corp.
60	Lake	Lke-K	IM-859	Keeney Sand & Stone, Inc.
61	Perry	Py-K	IM-851	Kieco Sand & Shale
62	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
63	Tuscarawas	Ts-2024	IM-1087	Green Basin Coal, Inc.
64	Wayne	We-26	IM-690, IM-1210	Rash Energy, Inc.

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<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
65	Columbiana	Ca-982	IM-1108	Leetonia Sand & Gravel Co., Inc.
66	Lorain	Ln-14	IM-1205	Golden Crescent Construction, Inc.
67	Perry	Py-DCC	IM-1192	Dennis Clay Co.
68	Summit	St-60	IM-12	Ohio Bulk Transfer Co.
70	Portage	Pe-9	IM-119	Oscar Brugmann Sand & Gravel, Inc.
71	Tuscarawas	Ts-1841	IM-45	Belden Brick Co.
72	Columbiana	Ca-S	IM-1258	Solomon's Mines' Inc.
73	Scioto	So-BC	IM-1252	Boone Coleman Construction, Inc.
74	Wayne	We-EA	IM-1259	E. A. Construction, Inc.

CLAY/SHALE □

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
1	Ashland	Ald-1	IM-334	London Tile Co.
2	Auglaize	Ae-7		Sandkuhl Clay Works, Inc.
4	Columbiana	Ca-505	IM-13, IM-936	State Line Resources, Inc.
5	Columbiana	Ca-205	IM-74	Summitville Tiles, Inc.
6	Coshocton	Cn-787	IM-610	General Clay Products Corp.
7	Cuyahoga	Cya-19	IM-95	Hydraulic Press Brick Co.
10	Greene	Ge-8	IM-364	Southwestern Portland Cement Co.
11	Harrison	Hn-152	IM-42	Bowerston Shale Co.
12	Hocking	Hg-205	IM-21	General Clay Products Corp.
17	Holmes	Hs-56		Clark Clay Co.
18	Holmes	Hs-77	IM-545	General Clay Products Corp.
19	Holmes	Hs-67	IM-3, IM-768	Holmes Limestone Co.
21	Jackson	Jkn-1001	IM-19, IM-336	Cedar Heights Clay Co.
22	Jackson	Jkn-1007	IM-24	Cedar Heights Clay Co.
23	Jackson	Jkn-367	IM-774, D-0273, D-0286, D-0594	Waterloo Coal Co., Inc.
31	Licking	Lg-501	IM-257	Bowerston Shale Co.
34	Mahoning	Mg-608	IM-4	E.M.A.I. Corp. (dba ESSROC Materials, Inc.)
36	Marion	Mn-7	IM-309	Glen-Gery Corp.
37	Medina	Ma-6	IM-455	General Clay Products Corp.
38	Muskingum	Mum-776	IM-256	Bowerston Shale Co.
41	Noble	Ne-66	IM-664	Towne Square Products
42	Paulding	Pg-1	IM-513	Lafarge Corp.
46	Perry	Py-212	IM-58	Ludowici-Celadon Co.
56	Tuscarawas	Ts-1517	IM-46	Belden Brick Co.
57	Tuscarawas	Ts-1646	IM-44	Belden Brick Co.
58	Tuscarawas	Ts-1841	IM-45	Belden Brick Co.
59	Tuscarawas	Ts-1939	IM-47	Belden Brick Co.
60	Tuscarawas	Ts-1960	IM-48	Belden Brick Co.
63	Tuscarawas	Ts-1818	IM-9	Kimble Clay & Limestone Co.
64	Tuscarawas	Ts-1884	IM-6	L & M Mineral Co.
65	Tuscarawas	Ts-1914	D-0701	L & M Mineral Co.
67	Tuscarawas	Ts-1557, Ts-1558	IM-52	Stone Creek Brick Co.
71	Tuscarawas	Ts-540	IM-28	Zoar Mining Co.
73	Wyandot	Wt-7	IM-407	General Clay Products Corp.
76	Stark	Sk-235	IM-945	Holmes Limestone Co.
77	Columbiana	Ts-1982	IM-621	L & M Mineral Co.
79	Athens	Ca-947	IM-935	Dome Minerals, Inc.
81	Stark	As-594		Athens Hocking Reclamation Center
82	Ashtabula	Asa-14	IM-563	Janson's Soil Service, Inc.
85	Tuscarawas	Ts-520	IM-214	Blue Jay Enterprises, Inc.
86	Geauga	Gea-9	IM-132	Soltis Sand & Gravel
87	Athens	As-595	IM-1083	Cochran Transportation Services, Inc.
88	Coshocton	Cn-828	IM-1026	William Albert, Inc.
89	Erie	Ee-32	IM-1077	Speer Brothers, Inc.
90	Greene	Ge-44		Southwestern Portland Cement Co.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 1995 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY – Continued**

CLAY/SHALE – Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
91	Jackson	Jkn-CH	IM-1060	Cedar Heights Clay Co.
92	Lake	Lke-M	IM-1059	Mitchell Transport, Inc.
93	Lawrence	Le-B	IM-1072	Belville Mining Co., Inc.
98	Perry	Py-N	IM-1097	Nutter Bros. Coal Co., Inc.
99	Pike	Pke-26	IM-142	Valley Materials Co.
101	Preble	Pre-9	IM-1095	Loxley Aggregates, Inc.
103	Tuscarawas	Ts-2024	IM-1087	Green Basin Coal, Inc.
105	Belmont	Bt-1190	IM-1089	Frank Widmor Coal Co., Inc.
106	Columbiana	Ca-970	IM-1024	M & M Builders Supply Co.
107	Mahoning	Mg-EM	IM-1056	E.M.A.I. Corp. (dba ESSROC Materials, Inc.)
108	Perry	Py-338	IM-1092	Dennis Clay Co.
109	Harrison	Hn-B	IM-1020	Bowerston Shale Co.
110	Hocking	Hg-330	IM-1013	General Clay Products Corp.
111	Holmes	Hs-96	IM-997	Jeff Chaney
114	Richland	Rd-R	IM-1035	Richland Moulded Brock Co.
116	Portage	Pe-61	IM-1064	Red Brush Peat Co.
118	Mahoning	Mg-631	IM-1103	East Fairfield Coal Co.
120	Butler	Br-56	IM-1137	S. K. Construction Co.
122	Muskingum	Mum-904	IM-1127	Valley Clay Mining Co.
123	Stark	Sk-246	IM-1114	American Landfill, Inc.
124	Muskingum	Mum-903	IM-1115	Dennis Clay Co.
126	Stark	Sk-217	IM-750	Waste Management of Ohio, Inc.
127	Columbiana	Ca-989	IM-1110	Summitville Tiles, Inc.
128	Athens	As-533	IM-17	R. A. Eberts Co., Inc.
130	Columbiana	Ca-348	IM-976	D. & D. Mining Co.
131	Columbiana	Ca-DM	IM-919	David McCourt Mining Co.
133	Jefferson	Jfn-PE	IM-1162	Penn Eagle Coal Corp.
135	Mahoning	Mg-632	IM-808	Solomon's Mines, Inc.
136	Ottawa	Oa-19	IM-1153	Brush Wellman, Inc.
137	Perry	Pg-344	IM-1014	Oglebay Norton Industrial Sands, Inc.
138	Perry	Py-S1	IM-1183	Swingle Drilling, Inc.
142	Tuscarawas	Ts-MMO	IM-1166	Miller Mining, Inc.
144	Wayne	We-26	IM-690, IM-1210	Rash Energy, Inc.
145	Jackson	Jkn-CH1	IM-1182	Cedar Heights Clay Co.
146	Stark	Sk-247	D-0929	Buckeye Industrial Mining Co.
147	Tuscarawas	Ts-B	IM-49	Belden Brick Co.
148	Knox	Kx-K	IM-870	Board of Knox County Commissioners
149	Perry	Py-K	IM-851	Kieco Sand & Shale
150	Ross	Rs-T	IM-1189	Tackett Builders
151	Tuscarawas	Ts-H1	IM-927	Holmes Limestone Co.
152	Washington	Wn-1010	IM-1163	M & J Sand & Gravel, Inc.
153	Champaign	Cpn-20	IM-482	Moore's Excavating Co.
154	Coshocton	Cn-JTM	IM-1199	JTM Industries, Inc.
155	Fairfield	Fd-16	IM-1156	James E. Downard
156	Lucas	Ls-13	IM-492	Seaway Sand & Stone, Inc.
157	Montgomery	My-CW	IM-878	Carter & Carter, Inc.
158	Montgomery	My-W	IM-1207	Weidle Sand & Gravel, Inc.
159	Perry	Py-DCC	IM-1192	Dennis Clay Co.
161	Portage	Pe-89	IM-1142	Green Oaks Potting Products, Inc.
162	Stark	Sk-BE	IM-1202	Beaver Excavating, Inc.
163	Washington	Wn-F	IM-1208	David L. Florence
164	Columbiana	Ca-888	IM-1181	D. & D. Mining Co.
165	Wayne	We-25	IM-1209	Craigton Shale Co.
166	Ashtabula	Asa-18	IM-949	Simak Trucking, Inc.
167	Carroll	Cl-238	D-0703	Buckeye Industrial Mining Co.
168	Coshocton	Cn-B	IM-1238	BRYCO
169	Coshocton	Cn-OHM	IM-1247	OHM Remediation Services Corp.
170	Fulton	Ftn-A	IM-1249	Andre Land Forming
171	Hocking	Hg-G	IM-1201	Good Builders
172	Licking	Lg-505	IM-1248	NuWay Services, Inc.
173	Perry	Py-V	IM-1245	Valley Clay Mining Co.
174	Stark	Sk-K	IM-1236	Koch Engineering Co., Inc.
175	Tuscarawas	Ts-2047	IM-1224	Sugarcreek Clay & Limestone, Inc.

**NUMERICAL INDEX OF OPERATORS OF MINES
SHOWN ON 1995 MINERAL INDUSTRIES MAP OF OHIO, BY COMMODITY — Continued**

CLAY/SHALE — Continued

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
176	Muskingum	Mum-DCC	IM-1220	Dennis Clay Co.
177	Tuscarawas	Ts-BB	IM-1221	Belden Brick Co.
178	Columbiana	Ca-987	D-0928	Buckeye Industrial Mining Co.
179	Wayne	We-11	IM-547	Prairie Land Sand & Gravel Co.
180	Athens	As-AC	IM-1272	Athens County
181	Coshocton	Cn-JT	IM-1253	JTM Industries, Inc.
182	Lawrence	Le-PH	IM-1268	P & H Construction
183	Stark	Sk-O	IM-1276	Oldtown Coal Co.
184	Trumbull	Tl-12	IM-131	Samco, Inc.
185	Wayne	We-EA	IM-1259	E. A. Construction, Inc.
186	Columbiana	Ca-BIM	IM-1271	Buckeye Industrial Mining Co.
187	Coshocton	Cn-O	IM-1256	Oxford Mining Co., Inc.
188	Harrison	Hn-CD	D-1105	Chambers Development of Ohio, Inc.
189	Stark	Sk-BI	D-1043	Buckeye Industrial Mining Co.
190	Hamilton	Hmn-72	IM-1264	Rumpke Mountain Mining Co.
191	Holmes	Hs-VH	IM-1263	John Van Horn Trucking
192	Tuscarawas	Ts-2041	IM-6	L & M Mineral Co.
193	Wayne	We-15	IM-398	Zollinger Sand & Gravel Co.

SALT ■ ■

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
1	Cuyahoga	Cya-30		Akzo Nobel Salt, Inc.
2	Lake	Lke-6		Morton International, Inc.
3	Licking	Lg-45		R. H. Penick Co.
4	Summit	St-9127		Akzo Nobel Salt, Inc.
5	Wayne	We-9129		Morton International, Inc.

GYPSUM ◆

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
1	Ottawa	Oa-2	IM-344	Celotex Corp.

PEAT ◇

<i>Map location number</i>	<i>County</i>	<i>State mine number</i>	<i>Division of Reclamation permit number</i>	<i>Name of operator</i>
1	Ashland	Ald-13		Mohican Organic Products, Inc.
2	Champaign	Cpn-9		Sphagnum Moss Peat Farm
4	Williams	Ws-17		Lingvai Peat Co.
7	Portage	Pe-89	IM-1142	Green Oaks Potting Products, Inc.
9	Portage	Pe-61	IM-1064	Red Brush Peat Co.
10	Montgomery	My-41	IM-360	Weidle Sand & Gravel, Inc.



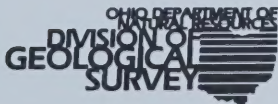
STATE OF OHIO
George V. Voinovich, Governor
DEPARTMENT OF NATURAL RESOURCES
Donald C. Anderson, Director
DIVISION OF GEOLOGICAL SURVEY
Thomas M. Berg, Chief

MINERAL INDUSTRIES MAP OF OHIO

1995

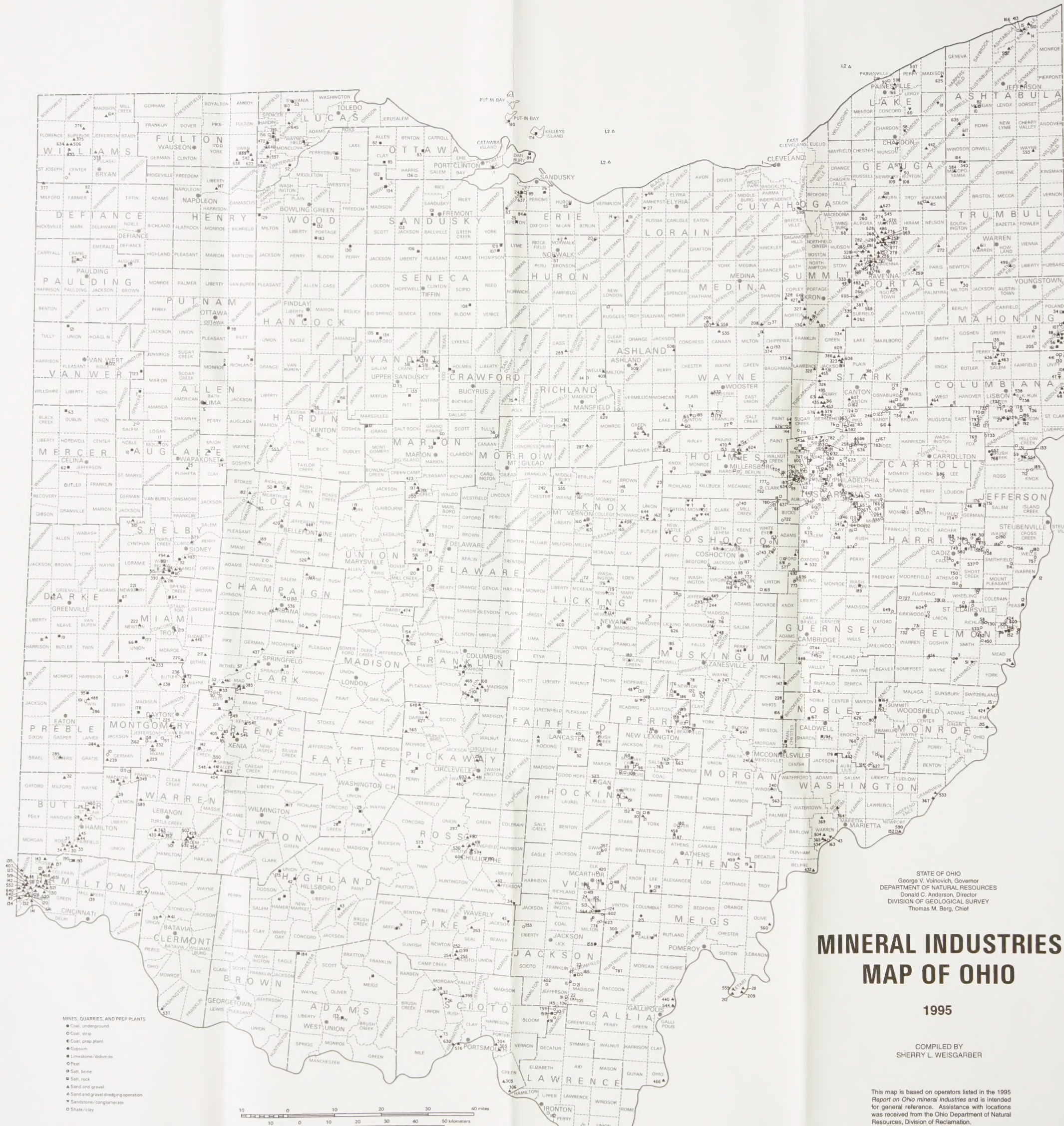
COMPILED BY
SHERRY L. WEISGARBER

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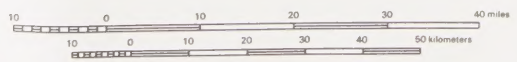


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- MINES, QUARRIES, AND PREP PLANTS**
- Coal, underground
 - Coal, strip
 - Coal, prep plant
 - Gypsum
 - Limestone/dolomite
 - Salt
 - Salt, brine
 - Salt, rock
 - ▲ Sand and gravel
 - ▲ Sand and gravel dredging operation
 - ▼ Sandstone/conglomerate
 - Shale/clay



Locations are approximate. Numbers opposite symbols are map location numbers assigned to operators listed in the alphabetical directories of the Division of Geological Survey's *Report on Ohio mineral industries*. The operator of a mine or quarry may be determined from the directories by use of the map location commodity symbol, number, and county name. A list of operators by commodity and map location number is also provided.

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CARTOGRAPHER: MICHAEL R. LESTER

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